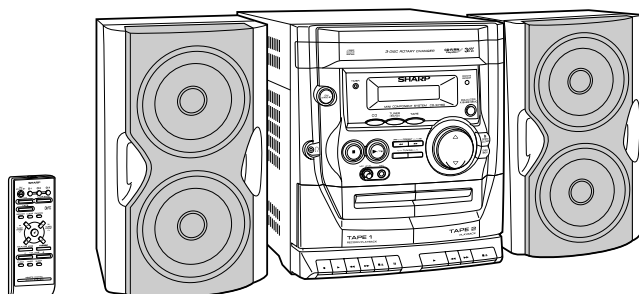


SHARP SERVICE MANUAL

No. S3321CDXP160W



MINI COMPONENT SYSTEM

MODEL CD-XP160W

CD-XP160W Mini Component System consisting of CD-XP160W (main unit) and CP-XP160 (speaker system).

COMPACT
disc
DIGITAL AUDIO

CD-R/RW
Playable

3-DISC
CD CHANGER
with Play Exchange

• In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

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SAFETY PRECAUTION FOR SERVICE MANUAL

Precaution to be taken when replacing and servicing the Laser Pickup.

The AEL (Accessible Emission Level) of Laser Power Output for this model is specified to be lower than Class 1 Requirements. However, the following precautions must be observed during servicing to protect your eyes against exposure to the Laser beam.

- (1) When the cabinet has been removed, the power is turned on without a compact disc, and the Pickup is on a position outer than the lead-in position, the Laser will light for several seconds to detect a disc. Do not look into the Pickup Lens.
- (2) The Laser Power Output of the Pickup inside the unit and replacement service parts have already been adjusted prior to shipping.
- (3) No adjustment to the Laser Power should be attempted when replacing or servicing the Pickup.
- (4) Under no circumstances look directly into the Pickup Lens at any time.
- (5) CAUTION - Use of controls or adjustments, or performance of procedures other than those specified herein may result in hazardous radiation exposure.

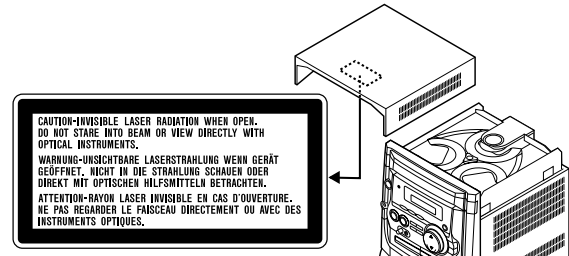
Laser Diode Properties

Material: GaAlAs

Wavelength: 780 nm

Emission Duration: continuous

Laser Output: max. 0.6 mW

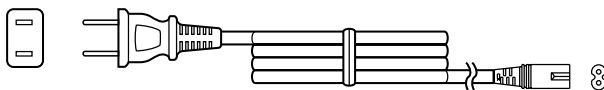


VOLTAGE SELECTION

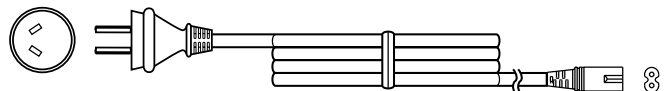
Before operating the unit on mains, check the preset voltage. If the voltage is different from your local voltage, adjust the voltage as follows, Turn the selector with a screwdriver until the appropriate voltage number appears in the window (110 V, 127 V, 220 V or 230 V - 240 V AC).

AC POWER CORD AND PLUG ADAPTOR

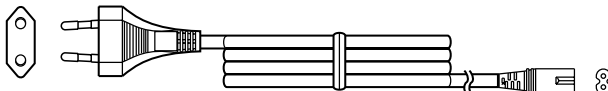
QACCA0002SJ00



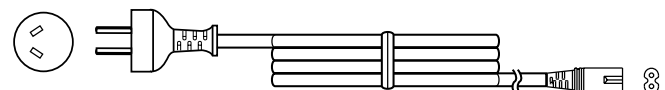
QACCL0002SJ00



QACCE0002SJZZ



QACCZ0006SJ00



QPLGA9004SJZZ



FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

General

Power source	AC 110/127/220/230 - 240 V, 50/60 Hz
Power consumption	70 W
Dimensions	Width: 270 mm (10-5/8") Height: 305 mm (12") Depth: 343 mm (13-1/2")
Weight	6.6 kg (14.5 lbs.)

Amplifier

Output power	MPO: 100 W (50 W + 50 W) (10 % T.H.D.) RMS: 66 W (33 W + 33 W) (10 % T.H.D.) RMS: 55 W (27.5 W + 27.5 W) (0.9 % T.H.D.)
Output terminals	Speakers: 6 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms)
Input terminal	Microphone: 1 mV/600 ohms

CD player

Type	3-disc multi-play compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

Tuner

Frequency range	FM: 88 - 108 MHz AM: 531 - 1,602 kHz
-----------------	---

Cassette deck

Frequency response	125 - 8,000 Hz (Normal tape)
Signal/noise ratio	50 dB (TAPE 1, recording/playback) 50 dB (TAPE 2, playback)
Wow and flutter	0.3 % (WRMS)

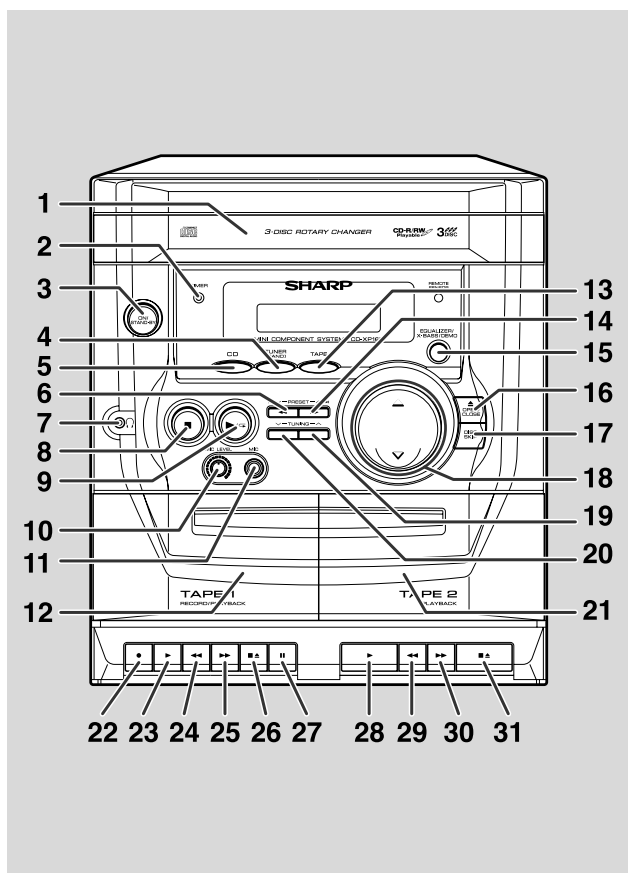
Speaker

Type	Twin-drive speaker system 10 cm (4") woofer x 2
Maximum input power	66 W
Rated input power	33 W
Impedance	6 ohms
Dimensions	Width: 200 mm (7-7/8") Height: 305 mm (12") Depth: 175 mm (6-9/16")
Weight	2.6 kg (5.7 lbs.)/each

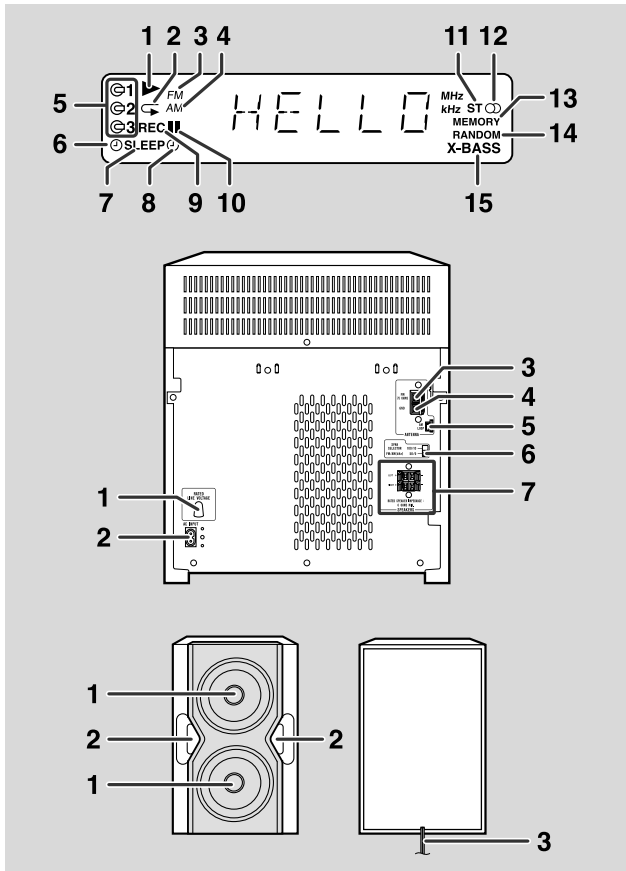
Specifications for this model are subject to change without prior notice.

NAMES OF PARTS

Front panel



1. Disc Tray
2. Timer Set Indicator
3. On/Stand-by Button
4. Tuner (Band) Button
5. CD Button
6. CD Track Down or Fast Reverse, Tuner Preset Down Button
7. Headphone Socket
8. CD Stop Button
9. CD Play or Repeat Button
10. Microphone Level Control
11. Microphone Socket
12. Tape 1 Cassette Compartment
13. Tape Button
14. CD Track Up or Fast Forward, Tuner Preset Up Button
15. Equaliser Mode Select/Extra Bass/Demo Mode Button
16. Disc Tray Open/Close Button
17. Disc Skip Button
18. Volume Up and Down Buttons
19. Tuning Up Button
20. Tuning Down Button
21. Tape 2 Cassette Compartment
22. Tape 1 Record Button
23. Tape 1 Play Button
24. Tape 1 Rewind Button
25. Tape 1 Fast Forward Button
26. Tape 1 Stop/Eject Button
27. Tape 1 Pause Button
28. Tape 2 Play Button
29. Tape 2 Rewind Button
30. Tape 2 Fast Forward Button
31. Tape 2 Stop/Eject Button



■ Display

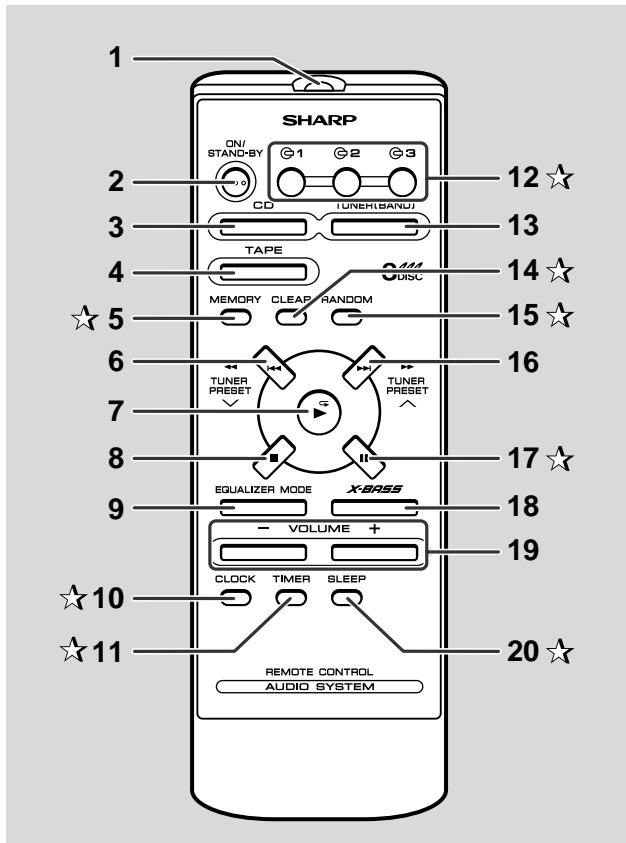
1. CD Play Indicator
2. CD Repeat Play Indicator
3. FM Station Indicator
4. AM Station Indicator
5. Disc Number Indicators
6. Clock Indicator
7. Sleep Indicator
8. Timer Play Indicator
9. Tape 1 Record Indicator
10. CD Pause Indicator
11. FM Stereo Mode Indicator
12. FM Stereo Receiving Indicator
13. Memory Indicator
14. CD Random Play Indicator
15. Extra Bass Indicator

■ Rear panel

1. AC Voltage Selector
2. AC Power Input Socket
3. FM 75 Ohms Aerial Terminal
4. FM Aerial Earth Terminal
5. AM Loop Aerial Socket
6. Span Selector Switch
7. Speaker Terminals

■ Speaker system

1. Woofers
2. Bass Reflex Ducts
3. Speaker Wire



■ Remote control

1. Remote Control Transmitter
2. On/Stand-by Button
3. CD Button
4. Tape Button
5. **Memory Button**
6. CD Track Down or Fast Reverse, Tuner Preset Down Button
7. CD Play or Repeat Button
8. CD Stop Button
9. Equaliser Mode Select Button
10. **Clock Button**
11. **Timer Button**
12. **Disc Number Select Buttons**
13. Tuner (Band) Button
14. **Programme Clear Button**
15. **CD Random Button**
16. CD Track Up or Fast Forward, Tuner Preset Up Button
17. **CD Pause Button**
18. Extra Bass Button
19. Volume Up and Down Buttons
20. **Sleep Button**

Buttons with "☆" mark in the illustration or highlighted in bold on the right can be operated on the remote control only.

DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw (A1) x5	5-1
2	Side Panel (Left/Right)	1. Screw (B1) x6	5-1
3	CD Player Unit	1. Turn on the power supply, open the disc tray, take out the CD tray cover, and close. 2. CD Tray Cover (C1) x1 3. Screw (C2) x2 4. Socket (C3) x4 5. Hook (C4) x2	5-2 5-3 5-2
4	Rear Panel	1. Screw (D1) x10	5-2
5	Main PWB	1. Screw (E1) x5 2. Socket (E2) x9	5-2,5-3 5-3
6	Front Panel	1. Screw (F1) x3 2. Hook (F2) x2	5-3
7	Power Switch PWB	1. Screw (G1) x3 2. Socket (G2) x1	6-1
8	Display PWB	1. Screw (H1) x10	6-1
9	Tape Mechanism	1. Open the cassette holder. 2. Screw (J1) x8	6-1
10	Headphones PWB	1. Screw (K1) x1	6-1
11	MIC PWB	1. Screw (L1) x2	6-1
12	Turntable	1. Screw (M1) x1 2. Spacer (M2) x1	6-2
13	Loading Tray	1. Push forward the loading tray. 2. Inserting the flat head into the hole, push in the direction indicated by the arrow. ... (N1) x2	6-2
14	CD Servo PWB (Note 1)	1. Screw (P1) x3 2. Socket (P2) x5	6-3
15	Loading Switch PWB	1. Screw (Q1) x2	6-3
16	CD Mechanism	1. Screw (R1) x4 2. Spring (R2) x4	6-4

Note 1:

1. After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of the connector so as to protect the optical pickup from electrostatic damage.

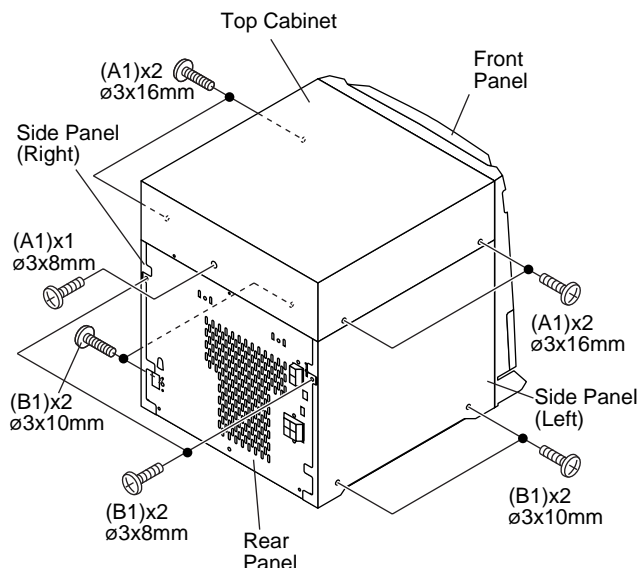


Figure 5-1

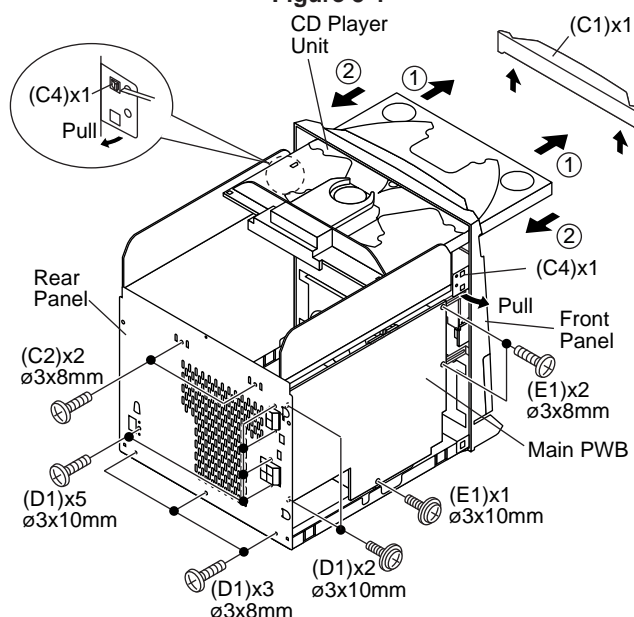


Figure 5-2

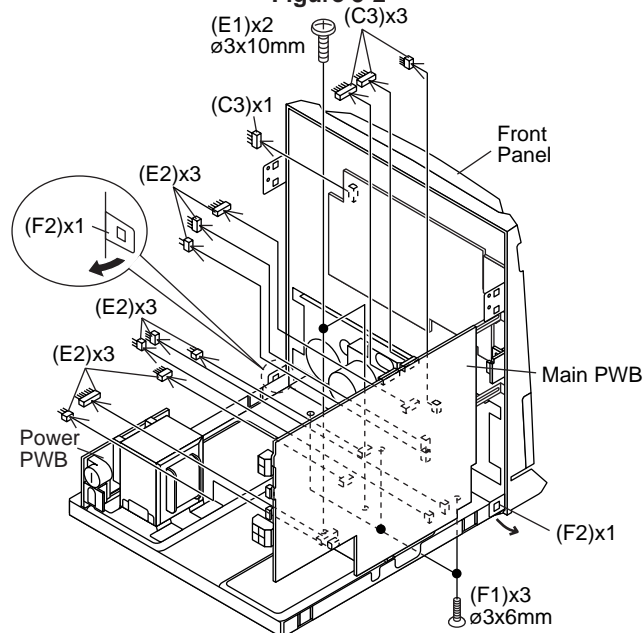


Figure 5-3

CD-XP160W

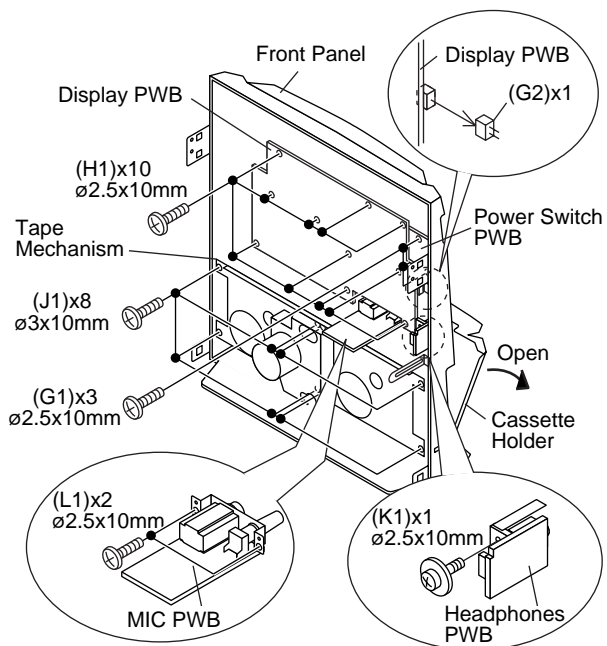


Figure 6-1

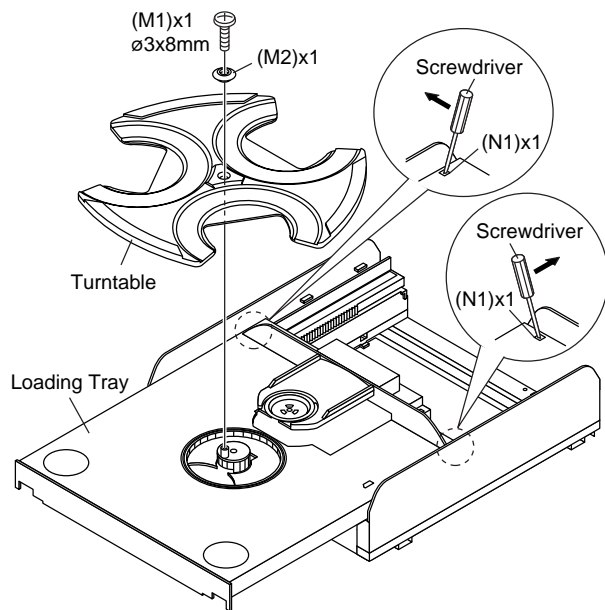


Figure 6-2

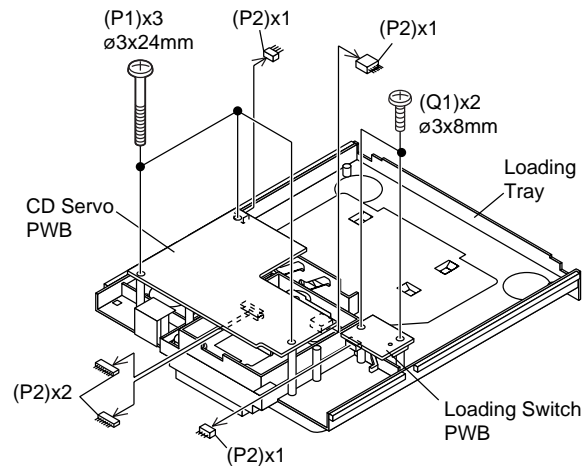


Figure 6-3

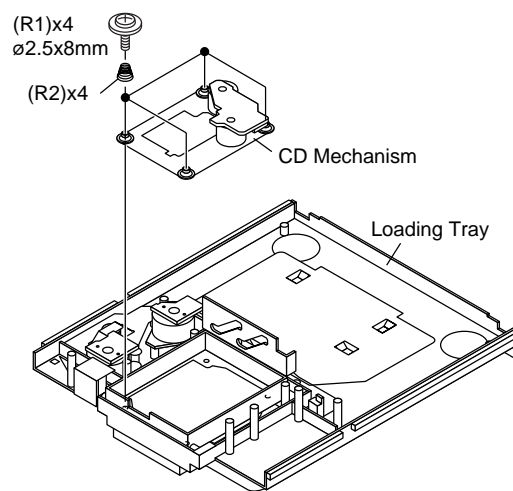


Figure 6-4

CP-XP160

This speaker CP-XP160 is available in assemblies only and may not be disassembled.

REMOVING AND REINSTALLING THE MAIN PARTS

TAPE MECHANISM SECTION

Perform steps 1 to 6 and 9 of the disassembly method to remove the tape mechanism.

How to remove the record/playback and erase heads (TAPE 1) (See Fig. 7-1)

1. When you remove the screws (A1) x 2 pcs., the record/playback head can be removed.
2. Move the hooks (A2) x 2 pcs., toward the center position as shown in Fig. 7-1 and then lift the erase head.

How to remove the playback head (TAPE 2) (See Fig. 7-2)

1. When you remove the screws (B1) x 2 pcs., the playback head can be removed.

How to remove the pinch roller (TAPE 1) (See Fig. 7-3)

1. When you remove the screw (C1) x 1 pc., the pinch roller can be removed.

Note:

When installing the pinch roller, pay attention to the spring mounting position.

How to remove the pinch roller (TAPE 2) (See Fig. 7-3)

1. When you remove the screw (D1) x 1 pc., the pinch roller can be removed.

Note:

When installing the pinch roller, pay attention to the spring mounting position.

How to remove the motor (See Fig. 7-4)

1. Remove the belt.
2. Remove the screws (E1) x 6 pcs., to remove the motor bracket.
3. Remove the screws (E2) x 3 pcs., to remove the motor.

How to remove the belt (TAPE 1) (See Fig. 7-5)

1. Remove the main belt (F1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (F2) x 1 pc.

How to remove the belt (TAPE 2) (See Fig. 7-5)

1. Remove the main belt (G1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (G2) x 1 pc.

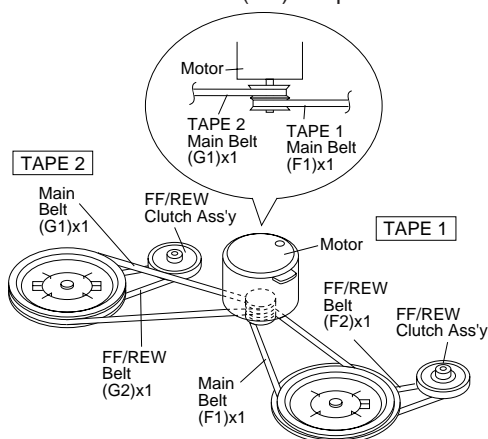


Figure 7-5

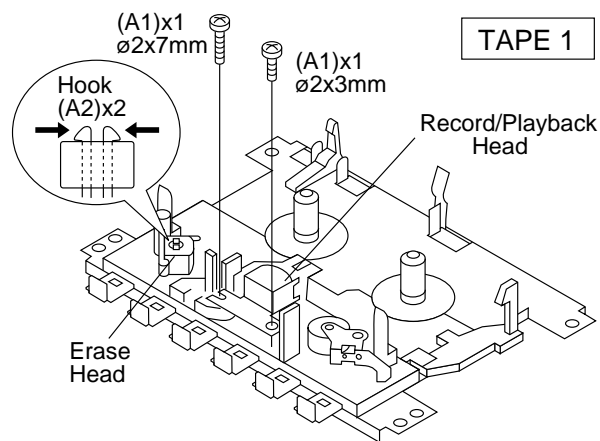


Figure 7-1

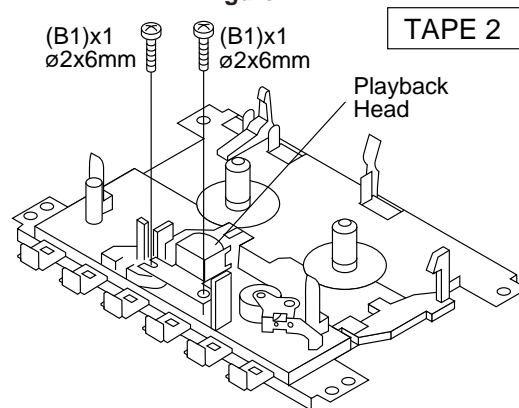


Figure 7-2

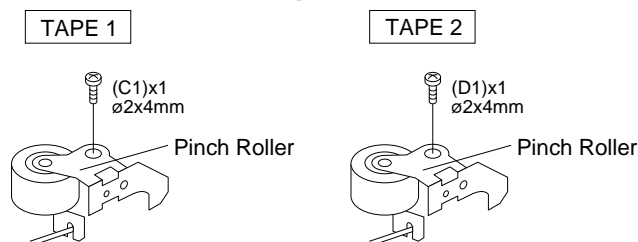


Figure 7-3

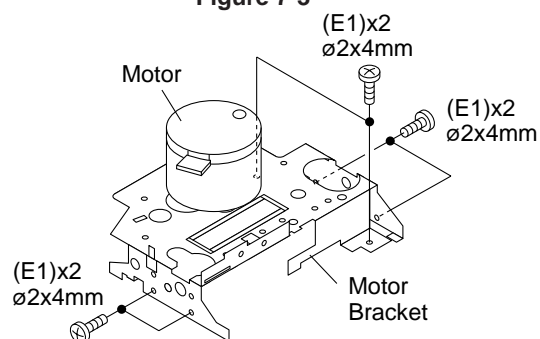


Figure 7-4

CD-XP160W

CD MECHANISM SECTION

Perform steps 1, 2, 3, 12, 13, 14 and 16 of the disassembly method to remove the CD mechanism.

How to remove the T/T up/down motor (See Figs. 8-1, 8-2)

1. Remove the screws (A1) x 4 pcs.
2. Remove the belt (A2) x 1 pc.
3. Remove the screws (A3) x 2 pcs., to remove the T/T up/down motor.

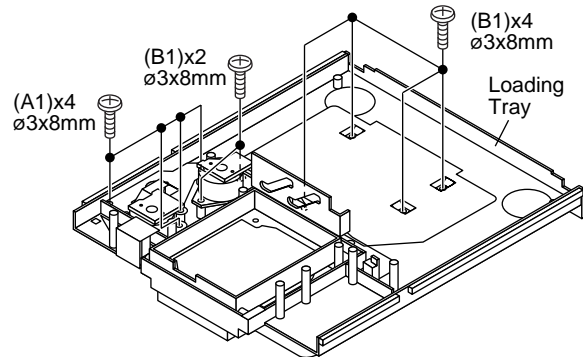


Figure 8-1

How to remove the loading motor (See Figs. 8-1, 8-2)

1. Remove the screws (B1) x 6 pcs.
2. Remove the belt (B2) x 1 pc.
3. Remove the screws (B3) x 2 pcs., to remove the loading motor.

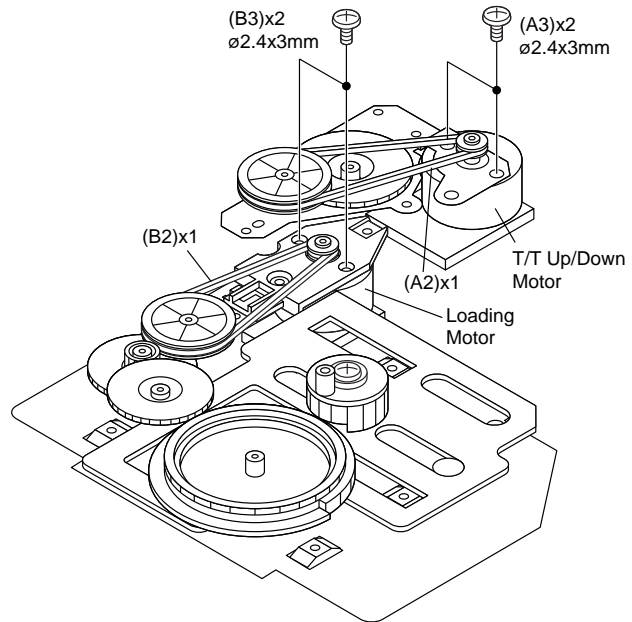


Figure 8-2

How to remove the pickup (See Fig. 8-3)

1. Remove the stop washer (C1) x 1 pc., to remove the gear (C2) x 1 pc.
2. Remove the screws (C3) x 2 pcs., to remove the shaft (C4) x 1 pc.
3. Remove the pickup.

Note

After removing the connector for the optical pickup from the connector wrap the conductive aluminium foil around the front end of connector so as to protect the optical pickup from electrostatic damage.

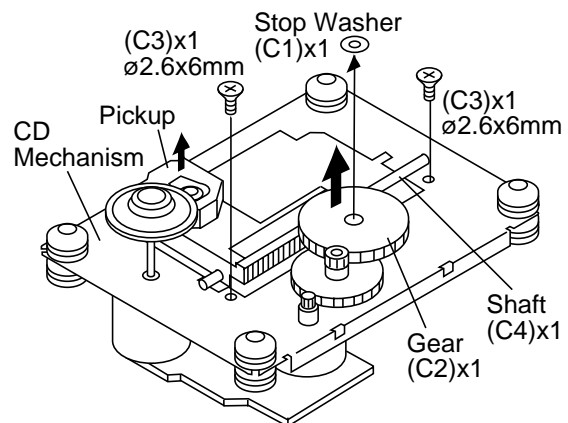


Figure 8-3

ADJUSTMENT

MECHANISM SECTION

• Driving Force Check

Torque Meter	Specified Value
Play: TW-2111	Tape 1: Over 80 g Tape 2: Over 80 g

• Torque Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 80 g.cm	30 to 80 g.cm
Fast forward: TW-2231	—	70 to 180 g.cm
Rewind: TW-2231	—	70 to 180 g.cm

• Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Tape speed	MTT-111	Variable Resistor.	3,000 ± 30 Hz	Speaker Terminal (Load resistance: 6 ohms)

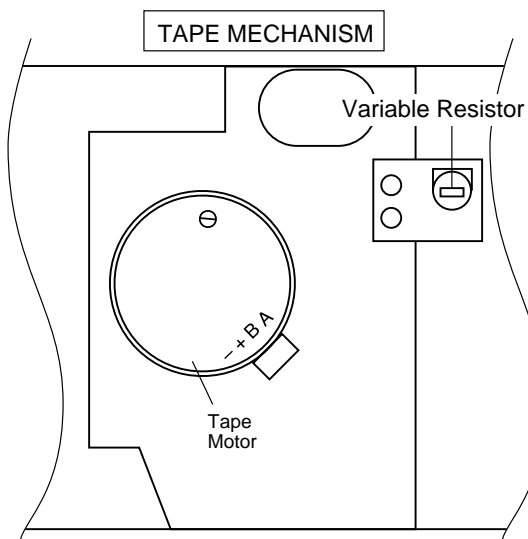


Figure 9-1

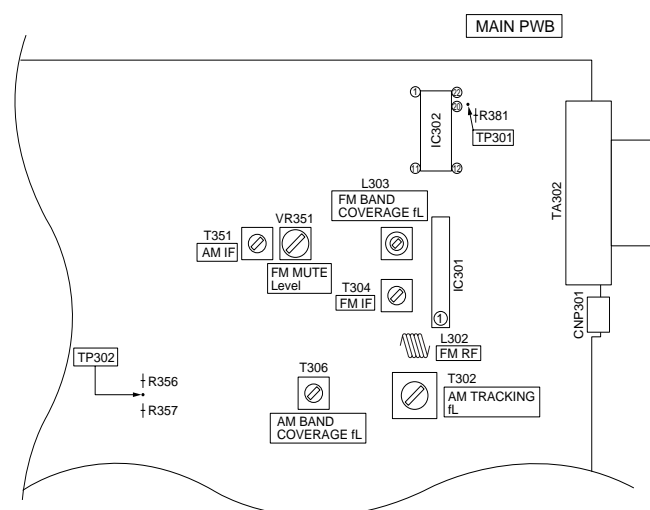


Figure 9-2 ADJUSTMENT POINTS

TUNER SECTION

fL: Low-range frequency

fH: High-range frequency

• AM IF/RF

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/Adjusting Parts	Instrument Connection
AM IF	450 kHz	1,602 kHz	T351	*1
AM Band Coverage	—	531 kHz	(fL): T306 1.1 ± 0.1 V	*2
AM Tracking	990 kHz	990 kHz	(fL): T302	*1

*1. Input: Antenna

Output: TP302

*2. Input: Antenna

Output: TP301

• FM RF

Signal generator: 1 kHz, 40 kHz dev., FM modulated

Test Stage	Frequency	Frequency Display	Setting/Adjusting Point	Instrument Connection
FM Band Coverage	—	87.50 MHz	L303 (fL): 1.3 V ± 0.1 V	*1
FM RF	98.00 MHz (10-30 dB)	98.00 MHz	L302	*2

*1. Input: Antenna

Output: TP301

*2. Input: Antenna

Output: Speaker Terminal

• FM IF

Signal generator: 10.7 MHz, FM modulated

Test Stage	Frequency	Frequency Display	Setting/Adjusting Point	Instrument Connection
IF	10.7 MHz	98 MHz	T304 (Turn the core of transformer T304 fully counter-clock wise)	*1

*1. Input: Antenna

Output: TP301

• FM Mute Level (FM ST MODE)

Signal generator: 1 kHz, 40 kHz dev., FM modulated

Frequency	Display	Adjusting Parts	Instrument Connection
98.00 MHz	98.00 MHz (26 dBμV)	VR351*1	Input: TA302 Output: Speaker Terminal

*1. Adjust so that an output signal appears.

TEST MODE

PLAY + DISC SKIP test04 TIMER ON/OFF TEST MODE

FL DISPLAY:

TEST 4

STOP + DISC SKIP test05 VFD DISPLAY WINDOW TEST MODE

FL DISPLAY: VFD ALL LIGHT

FUNCTION: TEST THE VFD DISPLAY WINDOW

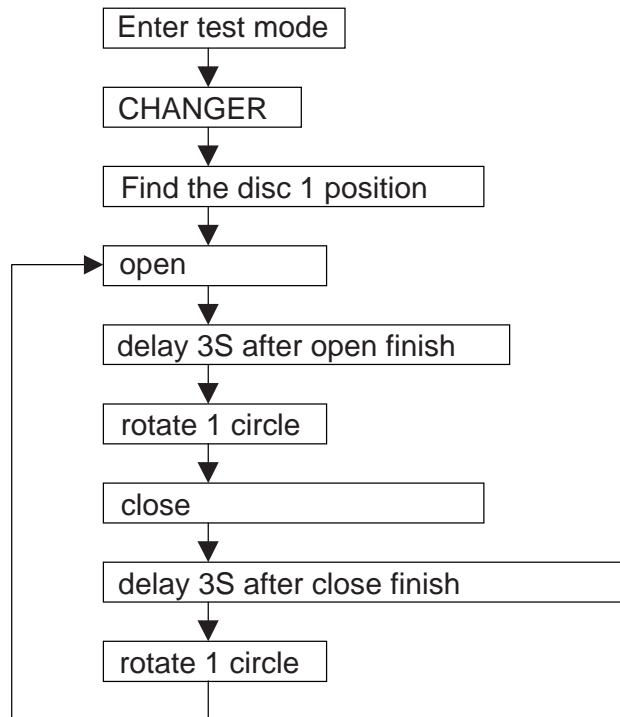
PLAY + OPEN/CLOSE test08 OPEN/CLOSE & 3 DISC CHANGER AGING TEST

DISPLAY:

TEST 8

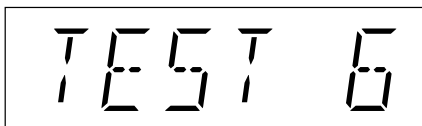
FUNCTION: Enter the TEST MODE 8, MCU control the 3 DISC CHANGER OPEN/CLOSE. After open finished, tray rotate 1 circle (360 degree). Then close, After close finished, tray rotate 1 circle (360 degree) again.

Request: Every period include 4 operation. Below is TIMING:



PLAY + VOLUME DOWN test06 FRONT PANEL KEY TEST

FL DISPLAY:

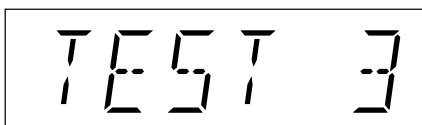


FUNCTION: FRONT PANEL KEY TEST MODE, IF ALL KEYS HAVE BEEN PRESSED 1 TIME,
THEN

PRESS THE "POWER" KEY, VFD DISPLAY "OK".

PLAY + VOLUME UP test03 VOLUME TEST MODE

FL DISPLAY:

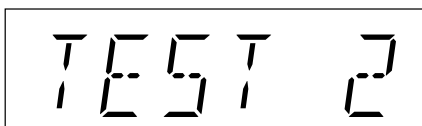


FUNCTION:

1. TEST 3 DISPLAY 1 SECOND. THEN CHANGE TO CD FUNCTION.
2. IN CD FUNCTION (Pickup IN → CHECK DISC1 SW TOC_IL → No DISC → RECEIVE OPEN/CLOSE KEY → OPEN → RECEIVE OPEN/CLOSE KEY → CLOSE)
3. Can change to other function [TAPE/TUNER] FUNCTION KEY PROCESS SAME AS NORMAL PROCESS.
4. In any function within this test mode VOLUME CONTROL HAS 3 LEVEL [0/23/MAX] CANCEL VOL UP/DOWN CONTINUE PROCESS FUNCTION.

PLAY + TUNER test02 TUNER TEST MODE

FL DISPLAY



FUNCTION STORE 10 PRESET TUNER IN THE MEMORY [AM/FM ST]
FM test use the BAND key change from FM ST.

NOTES ON SCHEMATIC DIAGRAM

- Resistor:

To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.

- Capacitor:

To indicate the unit of capacitor, a symbol P is used: this symbol P means pico-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.

(CH), (TH), (RH), (UJ): Temperature compensation

(ML): Mylar type

(P.P.): Polypropylene type

- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.

- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.

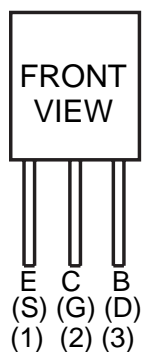
1. In the tuner section, indicates AM
indicates FM stereo
2. In the main section, a tape is being played back.
3. In the deck section, a tape is being played back.
() indicates the record state.
4. In the power section, a tape is being played back.
5. In the CD section, the CD is stopped.

- Parts marked with "△" (□ = = = □) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

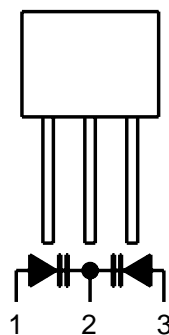
REF. NO	DESCRIPTION	POSITION
SW1	OPEN/CLOSE	ON—OFF
SW2	DISC	ON—OFF
SW3	UP	ON—OFF
SW4	PICKUP IN	ON—OFF
SW5	TAPE 1 PLAY	ON—OFF
SW6	TAPE 1 FF/REW	ON—OFF
SW7	TAPE 2 FF/REW	ON—OFF
SW8	TAPE 2 PLAY	ON—OFF
SW101	VOLTAGE SELECTOR	230-240V
SW102	SPAN SELECTOR	100/10
SW701	POWER ON/STAND-BY	ON—OFF
SW702	CD	ON—OFF
SW703	TUNING UP	ON—OFF

REF. NO	DESCRIPTION	POSITION
SW704	PRESET UP	ON—OFF
SW705	TUNER (BAND)	ON—OFF
SW706	TUNING DOWN	ON—OFF
SW707	PRESET DOWN	ON—OFF
SW708	EQUALIZER/X-BASS/DEMO	ON—OFF
SW709	TAPE	ON—OFF
SW710	STOP	ON—OFF
SW711	VOLUME UP	ON—OFF
SW712	DISC SKIP	ON—OFF
SW713	OPEN/CLOSE	ON—OFF
SW714	PLAY/REPEAT	ON—OFF
SW715	VOLUME DOWN	ON—OFF
SW801	REC./P.B.	ON—OFF

TYPES OF TRANSISTOR AND LED



KRC102 M
KRC107 M
KRC104 M
KSA1015 GR
HSB562 C
HSC1609 GR
KSC1815 GR
KSC3203 Y
KSA1271 Y
SSC1674 C



SVC348S
KDV147B

VOLTAGE

IC101	
PIN NO.	VOLTAGE
1	18.8 V
2	0.6 V
3	5.6 V

IC102	
PIN NO.	VOLTAGE
1	18.8 V
2	0 V
3	10 V

IC103	
PIN NO.	VOLTAGE
1	18.8 V
2	0 V
3	8 V

IC201	
PIN NO.	VOLTAGE
1	0.14 V
2	29 V
3	0.15 V
4	-29 V
5	0 V
6	0.3 V
7	0 V
8	0 V
9	0 V
10	0 V
11	0.3 V
12	0 V
13	0 V
14	0 V
15	29 V

IC402	
PIN NO.	VOLTAGE
1	0 V
2	4.2 V
3	5.1 V
4	2.7 V
5	2.4 V
6	4.3 V
7	1.7 V
8	2.7 V
9	3.5 V
10	2.7 V
11	4 V
12	0 V
13	3.8 V
14	0 V
15	0 V
16	0 V
17	2.7 V
18	0 V
19	2.7 V
20	2.7 V
21	2.7 V
22	2.7 V
23	2.7 V
24	3.1 V
25	2.7 V
26	2.7 V
27	2.7 V
28	2.7 V
29	2.8 V
30	2.8 V
31	2.8 V
32	2.8 V

IC401			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	2.6 V	41	0.2 V
2	2.6 V	42	2.7 V
3	2.6 V	43	0 V
4	5.1 V	44	2.7 V
5	0 V	45	1.3 V
6	2.5 V	46	0.5 V
7	4.5 V	47	2.7 V
8	4 V	48	1.6 V
9	4.7 V	49	0.3 V
10	0 V	50	5.1 V
11	0 V	51	0.3 V
12	0 V	52	2.7 V
13	0 V	53	2.7 V
14	5.1 V	54	0.2 V
15	2.5 V	55	0.3 V
16	0.2 V	56	5 V
17	0.3 V	57	0.3 V
18	4.8 V	58	2.5 V
19	2.6 V	59	2.7 V
20	2.6 V	60	5.1 V
21	2.7 V	61	4.8 V
22	2.7 V	62	0.3 V
23	2.7 V	63	0.3 V
24	2.7 V	64	0.2 V
25	2.7 V	65	0.3 V
26	2.7 V	66	5.1 V
27	2.7 V	67	5.1 V
28	2.7 V	68	0.3 V
29	2.7 V	69	5.1 V
30	2.4 V	70	5.1 V
31	2.4 V	71	5.1 V
32	2.7 V	72	4.7 V
33	2.7 V	73	2.4 V
34	2.7 V	74	0.3 V
35	0.3 V	75	2.4 V
36	0.3 V	76	5.1 V
37	2.3 V	77	0.2 V
38	0.3 V	78	0.2 V
39	0.3 V	79	5.1 V
40	5 V	80	5.1 V

Q101	
PIN NO.	VOLTAGE
E	-28.5 V
C	-29 V
B	-36 V

Q102	
PIN NO.	VOLTAGE
E	0 V
C	0.75 V
B	0.13 V

Q103	
PIN NO.	VOLTAGE
E	0.75 V
C	0 V
B	0.13 V

Q104	
PIN NO.	VOLTAGE
E	0 V
C	0.12 V
B	0.75 V

Q107	
PIN NO.	VOLTAGE
E	0 V
C	0 V
B	0.7 V

Q108	
PIN NO.	VOLTAGE
E	7 V
C	7 V
B	6.4 V

IC403	
PIN NO.	VOLTAGE
1	4.8 V
2	0 V
3	0 V
4	0 V
5	0 V
6	0 V
7	0 V
8	5 V
9	0 V
10	0 V
11	0 V
12	4.8 V
13	0 V
14	4.8 V
15	2.4 V
16	2.3 V
17	0 V
18	2 V
19	2.4 V
20	4.8 V
21	4.8 V
22	4.8 V
23	0 V
24	5 V
25	4.9 V
26	2.4 V
27	4.6 V
28	4.6 V
29	4.8 V
30	4.8 V
31	4.8 V
32	0 V
33	4.8 V
34	4.8 V
35	4.8 V
36	5.1 V
37	4.9 V
38	0 V
39	0 V
40	0 V
41	4.8 V
42	4.8 V
43	4.8 V
44	0 V
45	0.2 V
46	4.6 V
47	4.1 V
48	4.8 V

Q117	
PIN NO.	VOLTAGE
E	0 V
C	9.9 V
B	0 V

IC404	
PIN NO.	VOLTAGE
1	2.7 V
2	2.7 V
3	2.7 V
4	2.7 V
5	5.2 V
6	5.2 V
7	4.7 V
8	0 V
9	2.7 V
10	2.7 V
11	2.4 V
12	2.9 V
13	0 V
14	2.9 V
15	0 V
16	5.6 V
17	2.7 V
18	2.7 V
19	2.7 V
20	2.7 V
21	6 V
22	6 V
23	2.7 V
24	2.7 V
25	2.7 V
26	3 V
27	2.5 V
28	0 V
29	2.7 V
30	2.9 V
31	2.4 V
32	0 V

IC601	
PIN NO.	VOLTAGE
1	4.8 V
2	0 V
3	0 V
4	4.8 V
5	4.8 V
6	4.8 V
7	4.8 V
8	4.8 V
9	4.8 V
10	4.8 V
11	4.8 V
12	4.8 V
13	4.8 V
14	4.8 V
15	4.8 V
16	4.8 V
17	4.8 V
18	4.8 V
19	4.8 V
20	4.8 V
21	4.8 V
22	4.8 V
23	7.6 V
24	4.8 V

IC701	
PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0 V
4	0 V
5	4.4 V
6	4.4 V
7	0 V
8	4.5 V
9	4.8 V
10	0 V
11	0 V
12	0 V
13	0 V
14	5.2 V
15	3.5 V
16	8.3 V
17	13.2 V
18	16.2 V
19	16.2 V
20	13.2 V
21	17.6 V
22	-27 V
23	-25 V
24	-27 V
25	15.2 V
26	7.2 V
27	-28 V
28	12.5 V
29	7.2 V
30	4.4 V
31	3.8 V
32	7.2 V
33	7.2 V
34	4.3 V
35	7.2 V
36	7.2 V
37	7.2 V
38	4.7 V
39	4.8 V
40	4.8 V
41	4.8 V
42	4.8 V
43	0 V
44	2.6 V

IC901	
PIN NO.	VOLTAGE
1	9 V
2	5.10 V
3	5.10 V
4	0 V
5	5.10 V
6	5.10 V
7	5.15 V
8	10 V

IC902	
PIN NO.	VOLTAGE
1	9.70 V
2	0.9 V
3	1.8 V
4	0 V
5	4.8 V
6	5.10 V
7	5.15 V
8	10 V

IC801	
PIN NO.	VOLTAGE
1	0 V
2	1.5 V
3	1.5 V
4	1.8 V
5	0.8 V
6	0 V
7	0 V
8	0.6 V
9	3 V
10	3 V
11	0 V
12	0 V
13	6.2 V
14	3.8 V
15	0 V
16	3 V
17	0.6 V
18	0 V
19	0 V
20	1 V
21	1.8 V
22	0.6 V
23	0 V
24	0 V

Q105	
PIN NO.	VOLTAGE
E	0 V
C	9 V
B	1.2 V

Q106	
PIN NO.	VOLTAGE
E	10 V
C	10 V
B	9.4 V

Q201	
PIN NO.	VOLTAGE
E	0 V
C	0 V
B	0.7 V

Q202	
PIN NO.	VOLTAGE
E	0 V
C	0 V
B	0.7 V

Q203	
PIN NO.	VOLTAGE
E	0 V
C	0 V
B	0.6 V

Q204	
PIN NO.	VOLTAGE
E	0 V
C	0 V
B	0.6 V

Q302	
PIN NO.	VOLTAGE
E	0 V
C	0.9 V
B	2.3 V

Q306	
PIN NO.	VOLTAGE
E	0 V
C	0.8 V
B	3.6 V

Q351	
PIN NO.	VOLTAGE
E	0 V
C	4.7 V (0 V)
B	3.7 V (0 V)

Q401	
PIN NO.	VOLTAGE
E	5 V
C	2.1 V
B	4.2 V

Q402	
PIN NO.	VOLTAGE
E	0 V
C	0.3 V
B	0 V

Q403	
PIN NO.	VOLTAGE
E	5.7 V
C	0 V
B	5.3 V

Q404	
PIN NO.	VOLTAGE
E	6.3 V
C	5.2 V
B	5.2 V

Q405	
PIN NO.	VOLTAGE
E	0 V
C	5.3 V
B	0 V

Q406	
PIN NO.	VOLTAGE
E	0 V
C	5.3 V
B	0 V

Q407	
PIN NO.	VOLTAGE
E	6 V
C	3 V
B	5.5 V

Q408	
PIN NO.	VOLTAGE
E	0 V
C	0.3 V
B	0 V

Q409	
PIN NO.	VOLTAGE
E	0 V
C	5 V
B	0 V

Q410	
PIN NO.	VOLTAGE
E	5.6 V
C	0 V
B	5.3 V

Q411	
PIN NO.	VOLTAGE
E	0 V
C	4.8 V
B	0 V

Q412	
PIN NO.	VOLTAGE
E	0 V
C	4.8 V
B	0 V

Q413	
PIN NO.	VOLTAGE
E	0 V
C	0 V
B	1.1 V

Q701	
PIN NO.	VOLTAGE
E	0 V
C	3.8 V
B	0 V

Q801	
PIN NO.	VOLTAGE
E	0.26 V
C	4.92 V
B	0.94 V

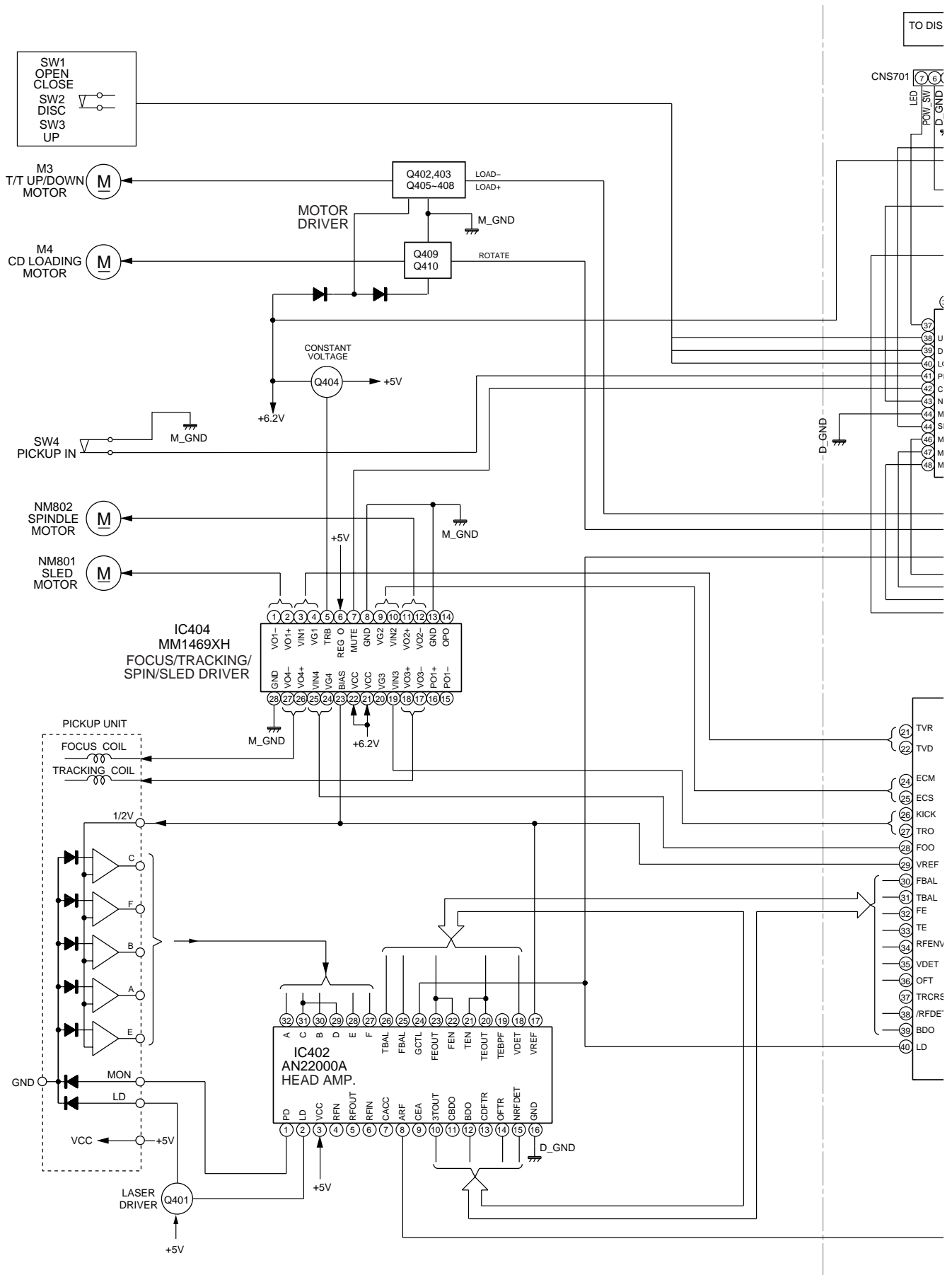


Figure 14 BLOCK DIAGRAM (1/4)

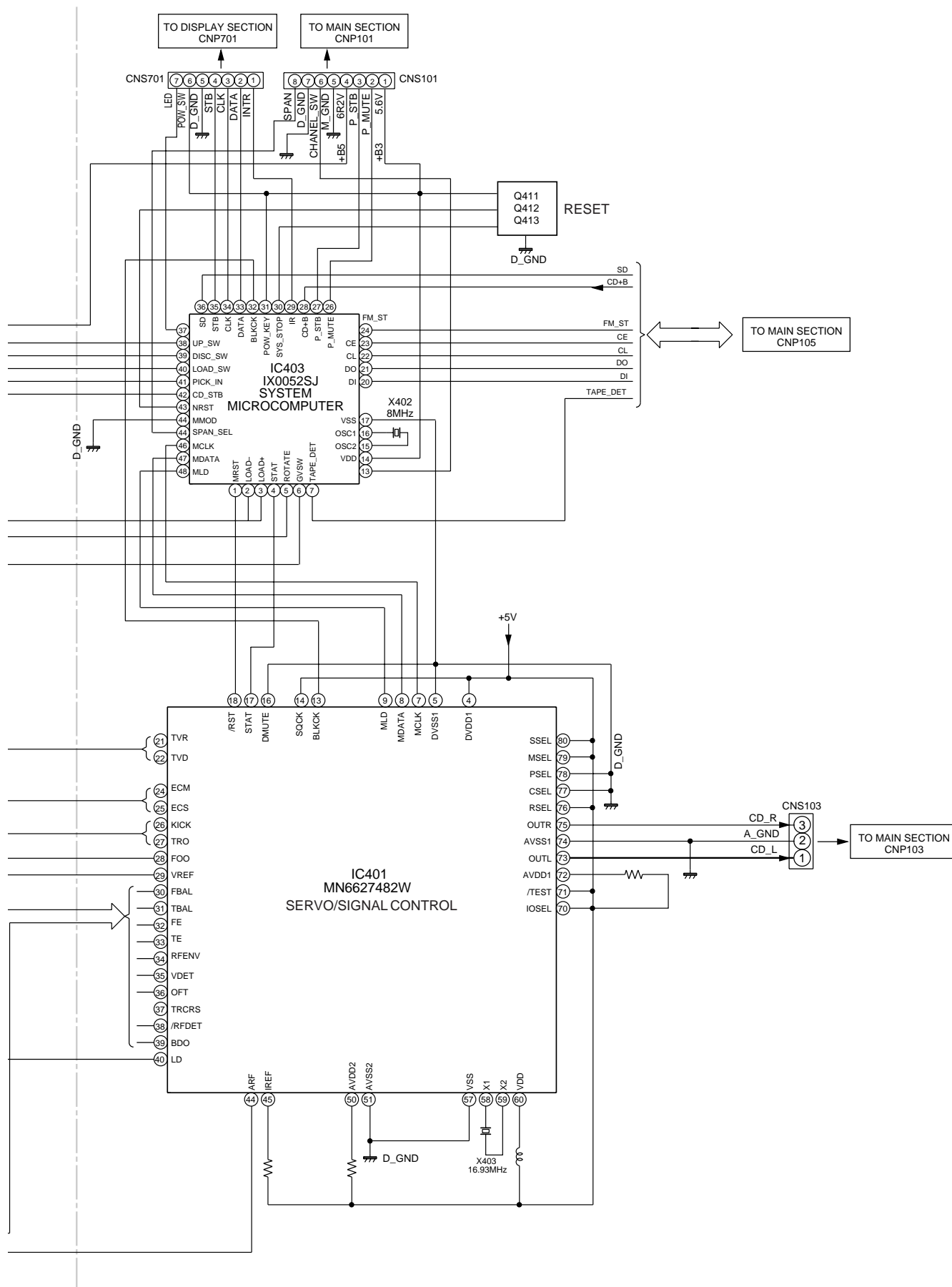


Figure 15 BLOCK DIAGRAM (2/4)

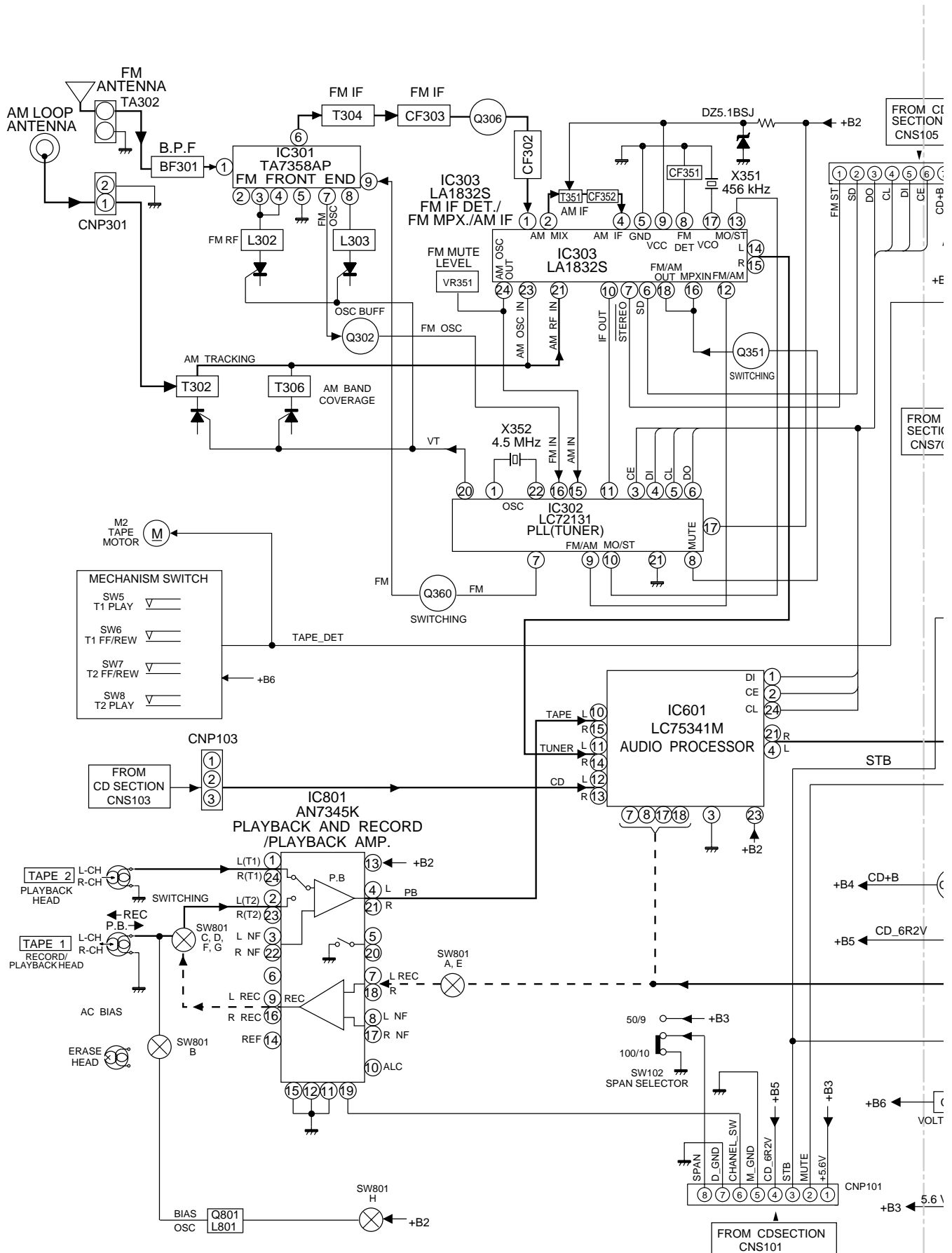
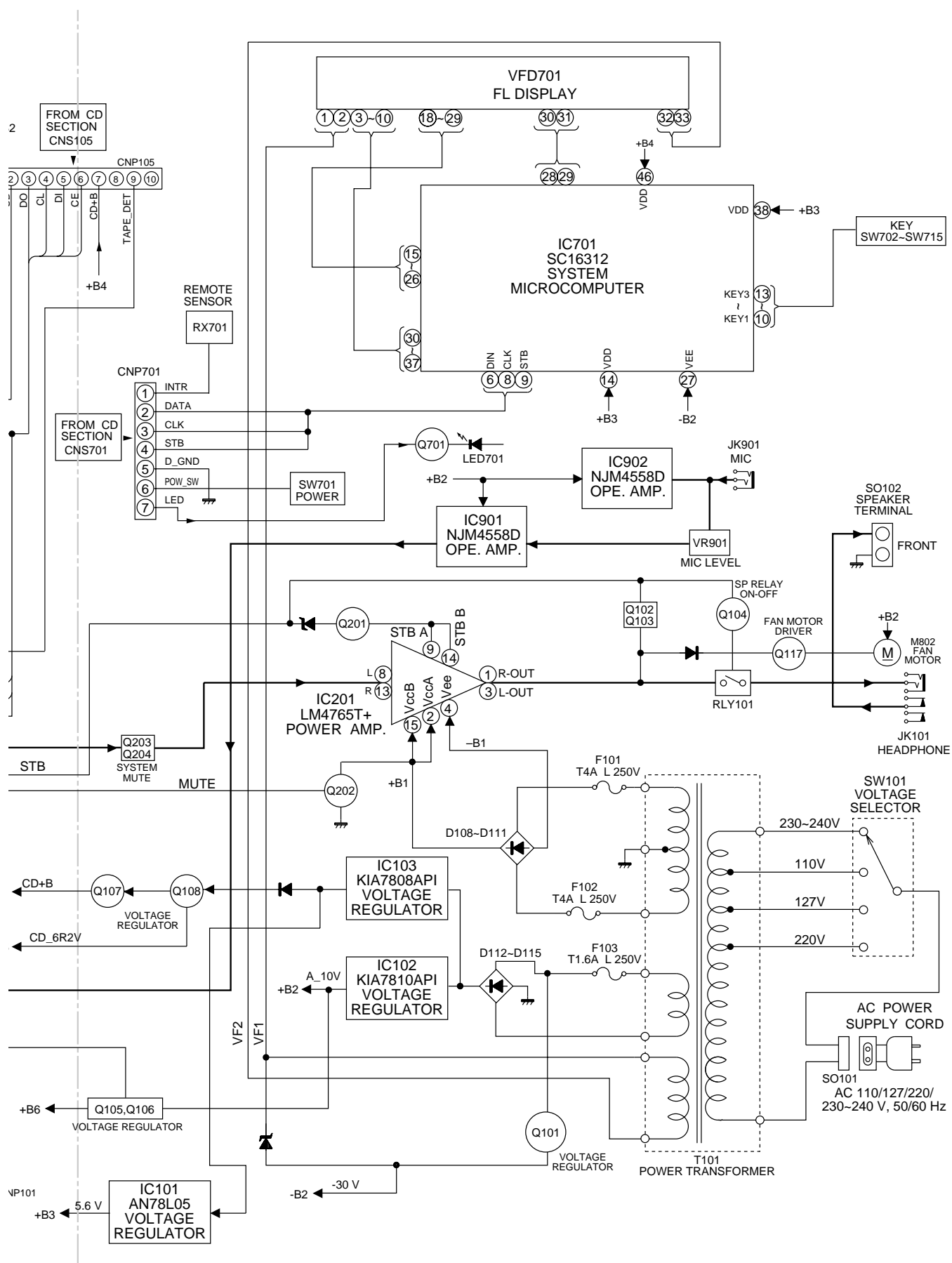


Figure 16 BLOCK DIAGRAM (3/4)





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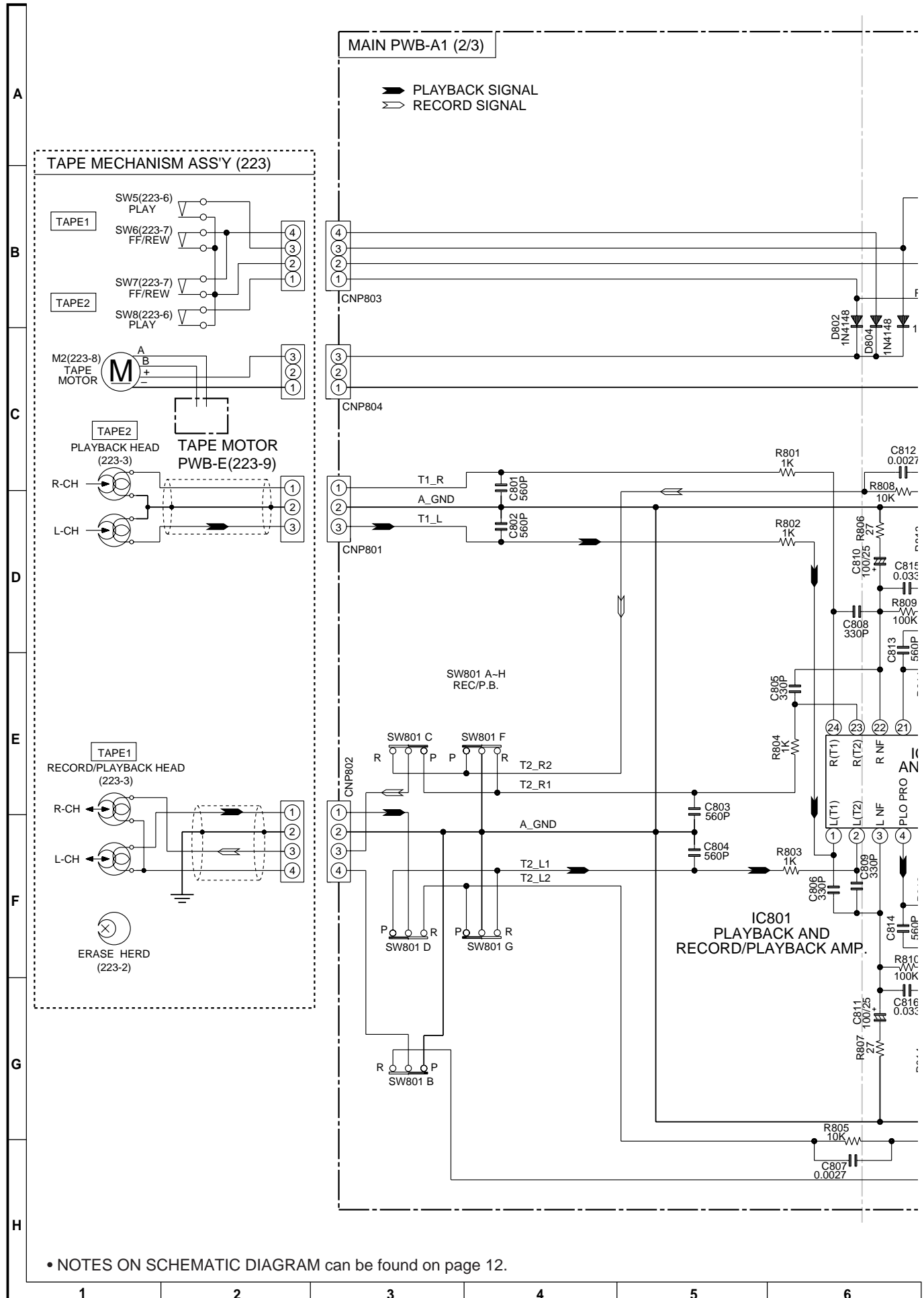


Figure 20 SCHEMATIC DIAGRAM (3/10)

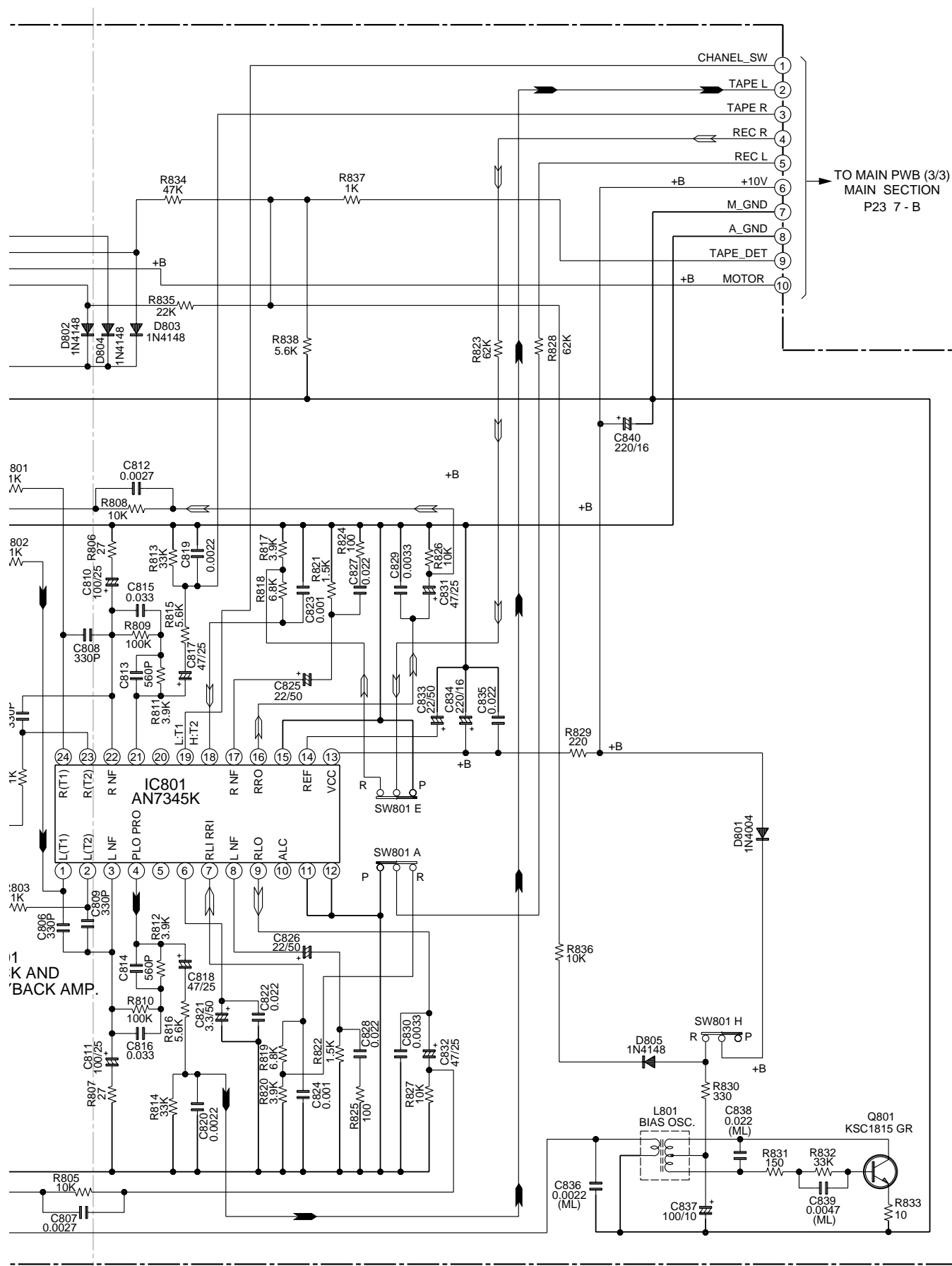
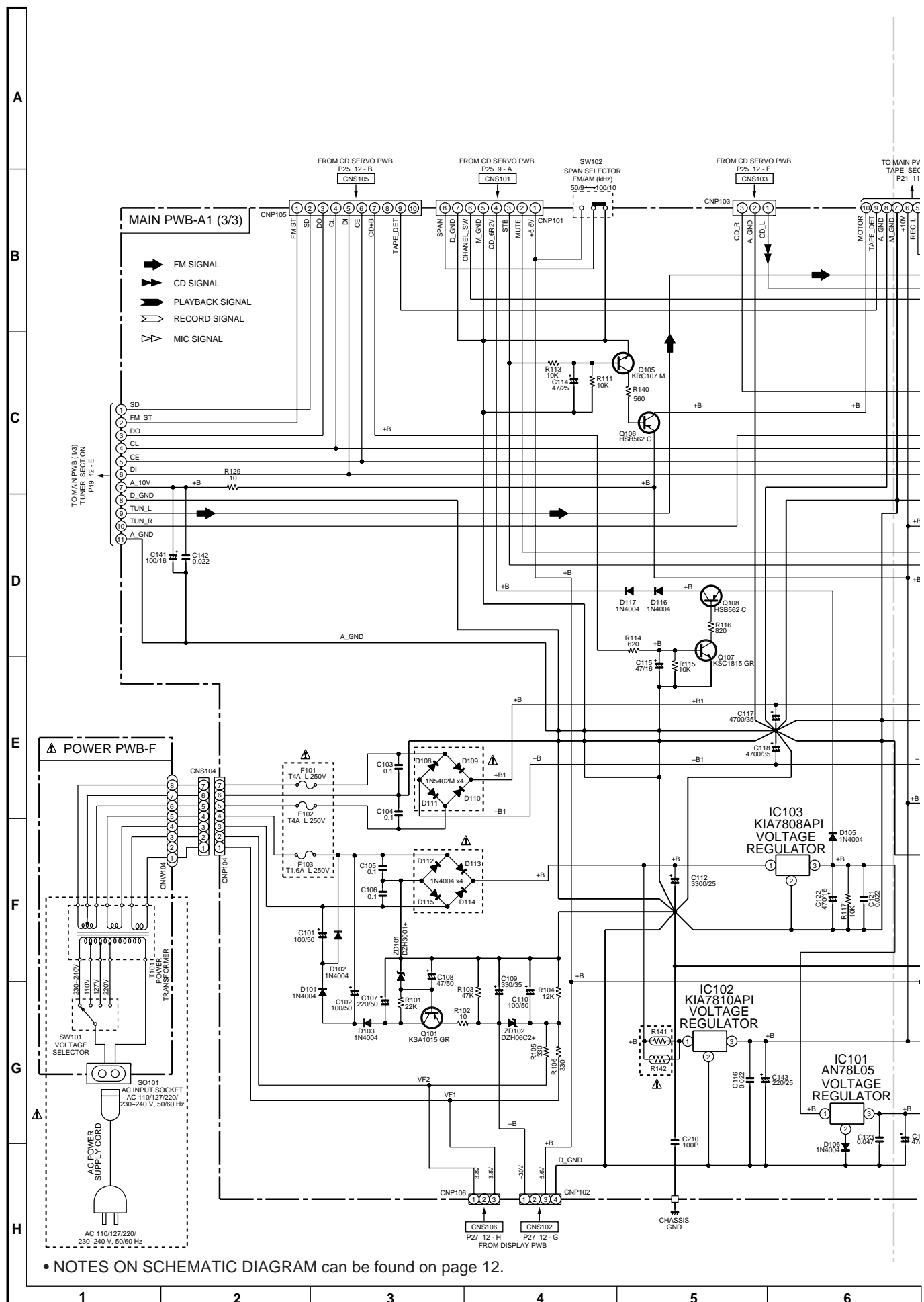


Figure 21 SCHEMATIC DIAGRAM (4/10)



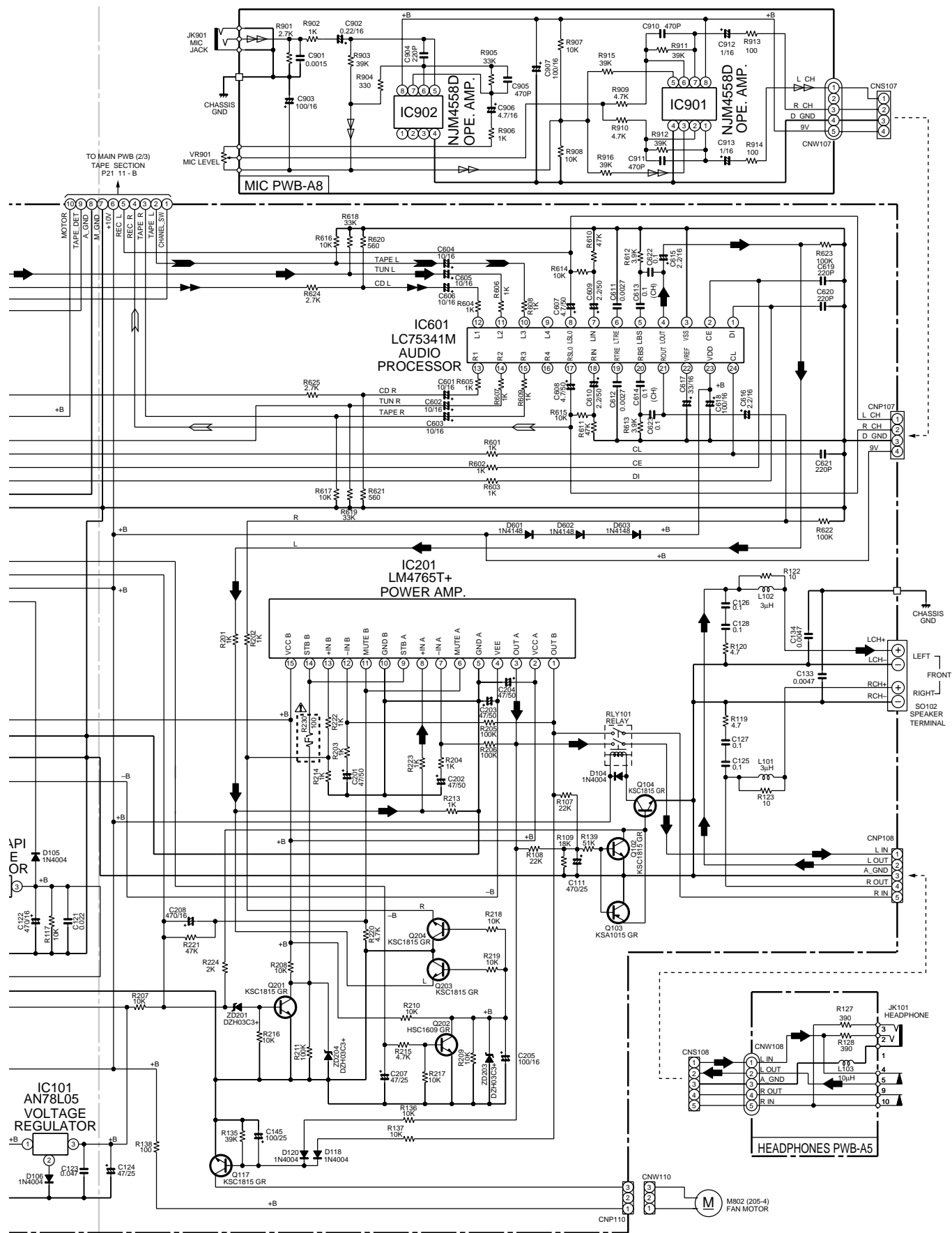
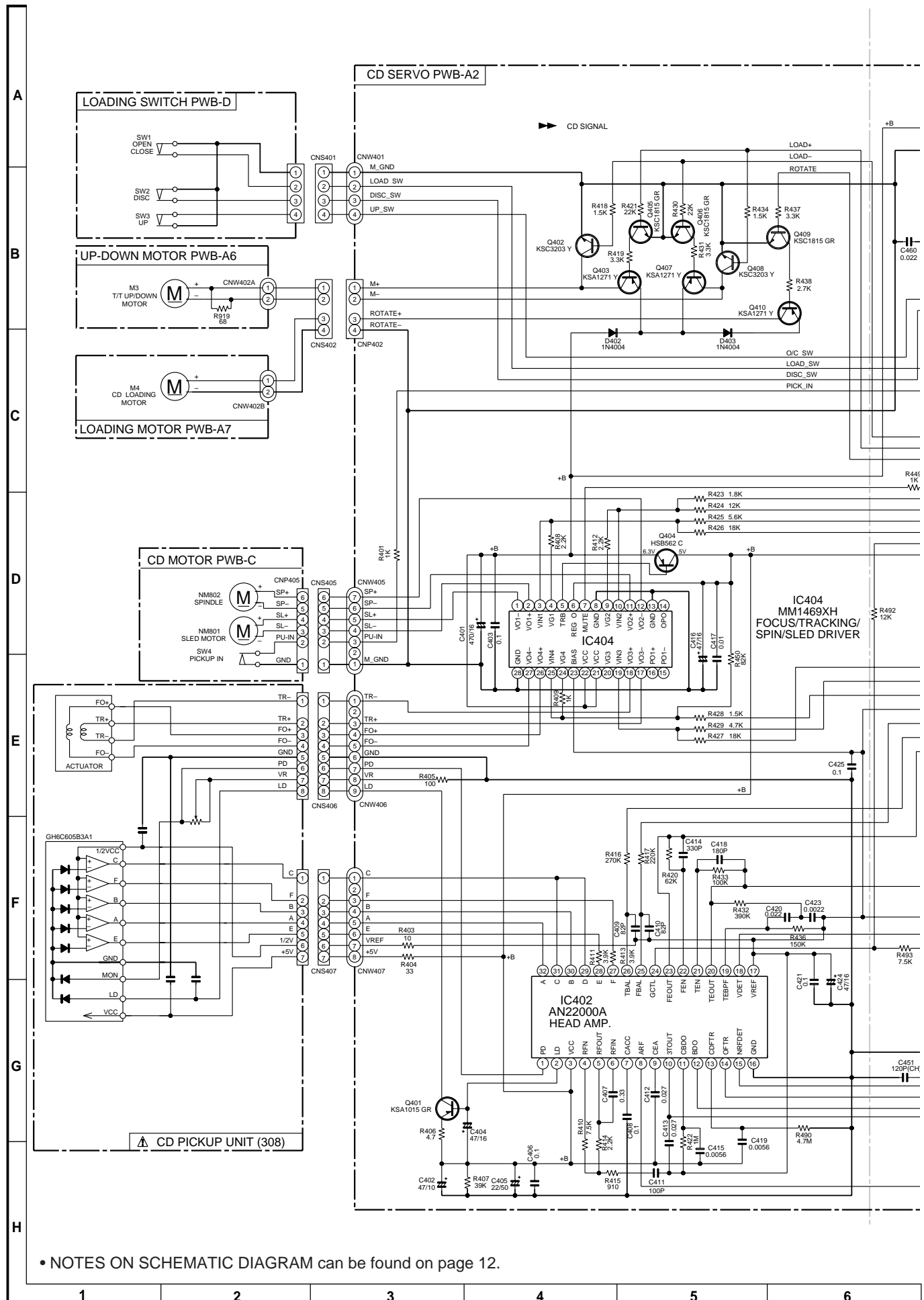


Figure 23 SCHEMATIC DIAGRAM (6/10)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 12.

Figure 24 SCHEMATIC DIAGRAM (7/10)

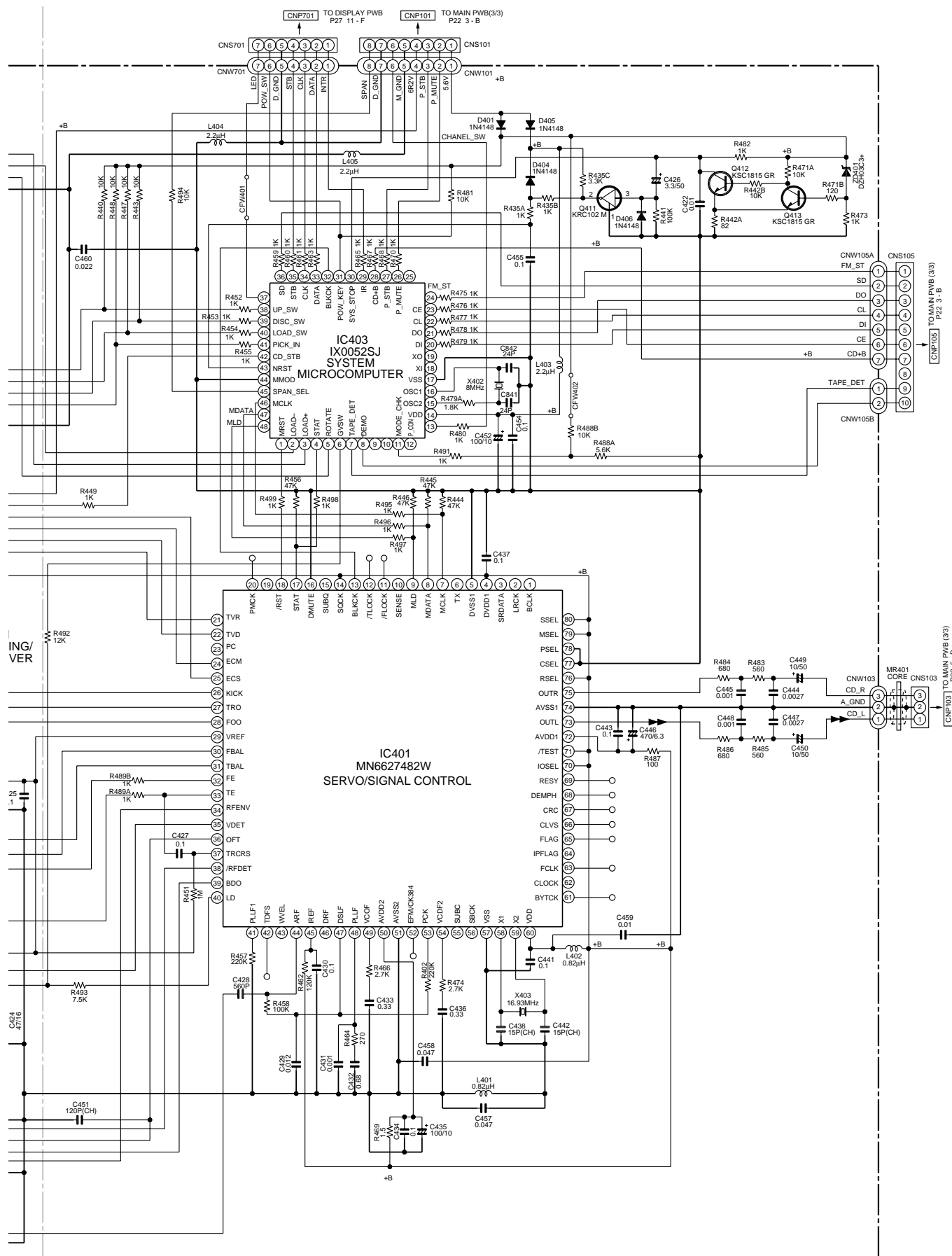


Figure 25 SCHEMATIC DIAGRAM (8/10)

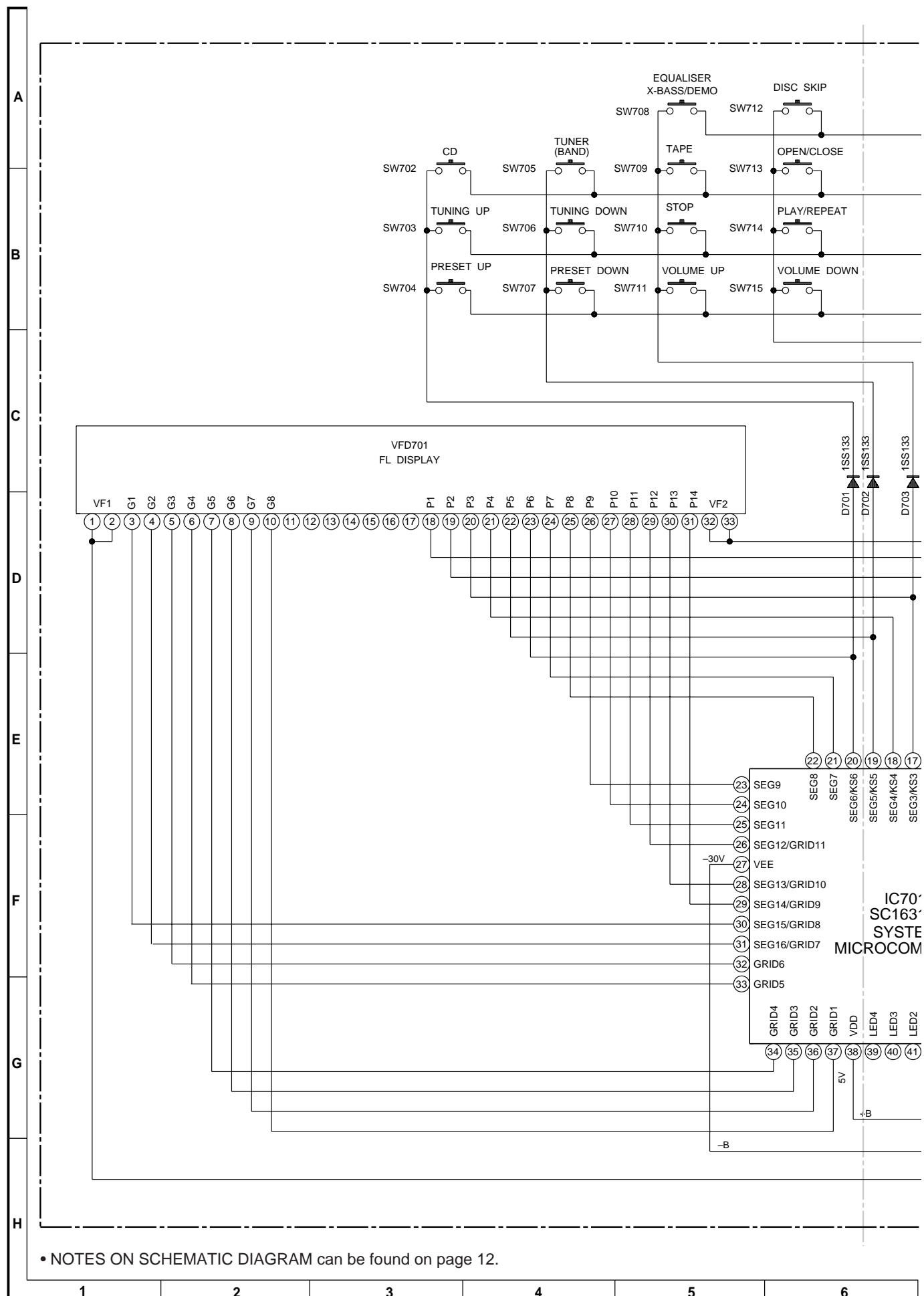


Figure 26 SCHEMATIC DIAGRAM (9/10)

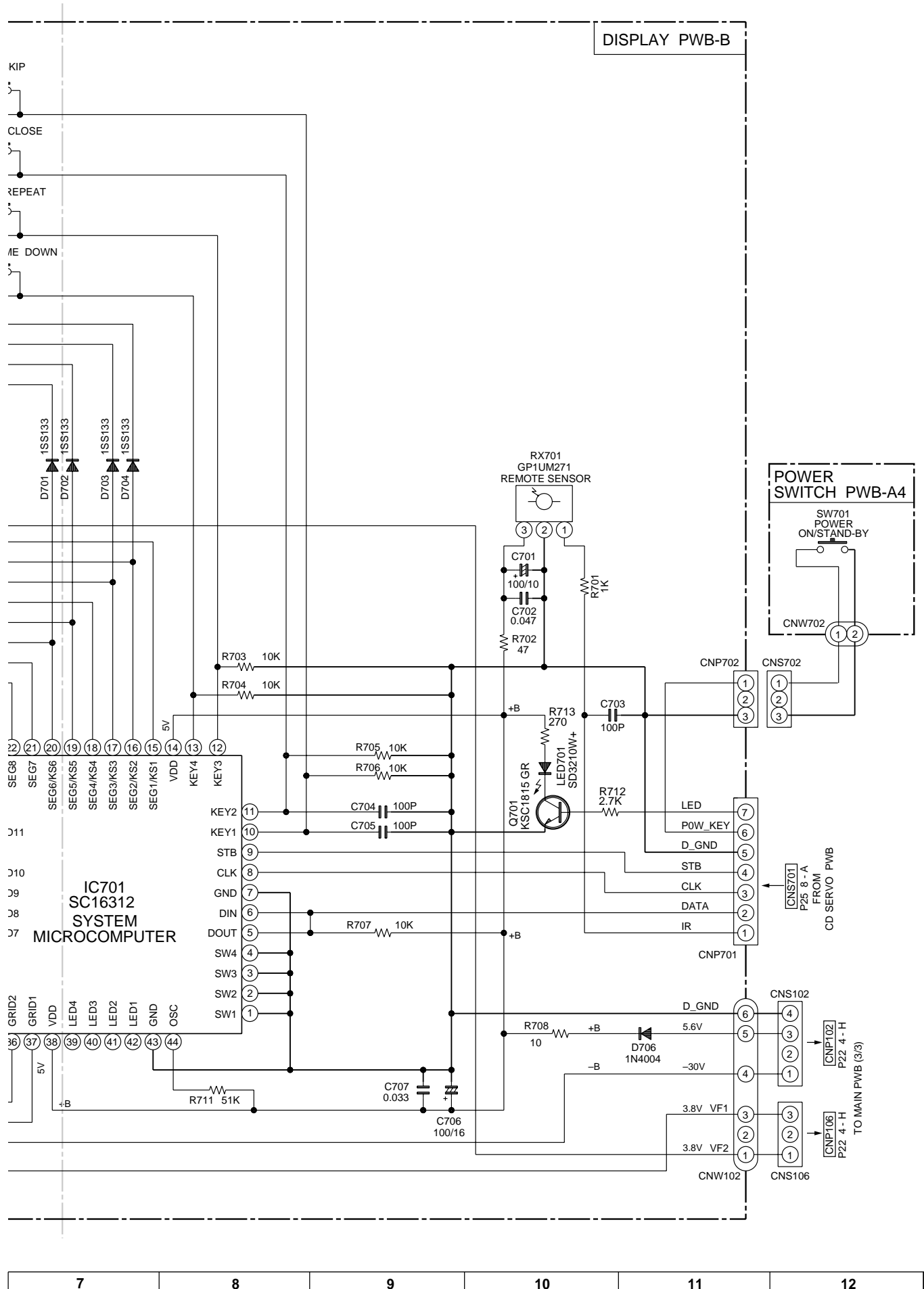


Figure 27 SCHEMATIC DIAGRAM (10/10)

MAIN PWB-A1

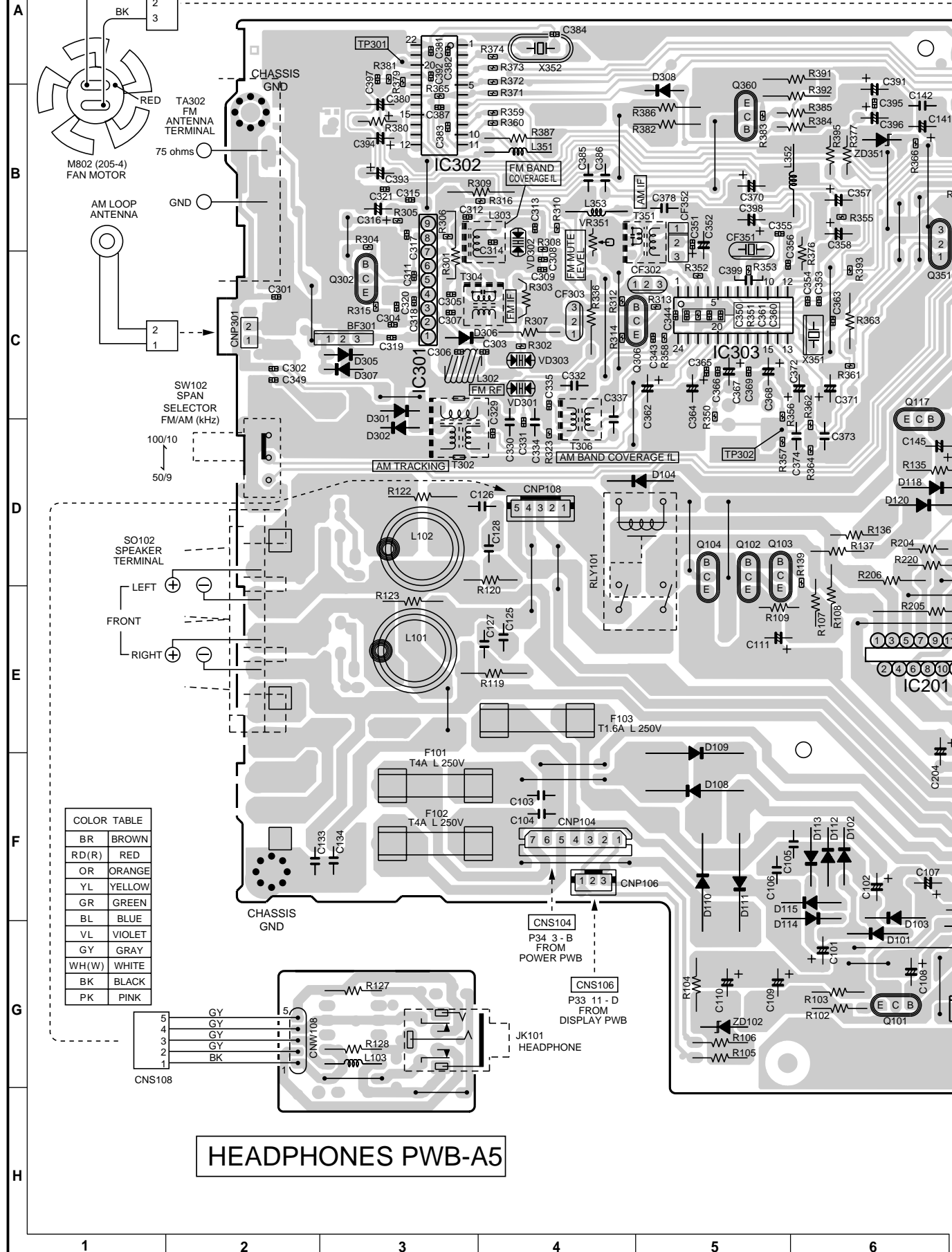


Figure 28 WIRING SIDE OF P.W.BOARD (1/8)

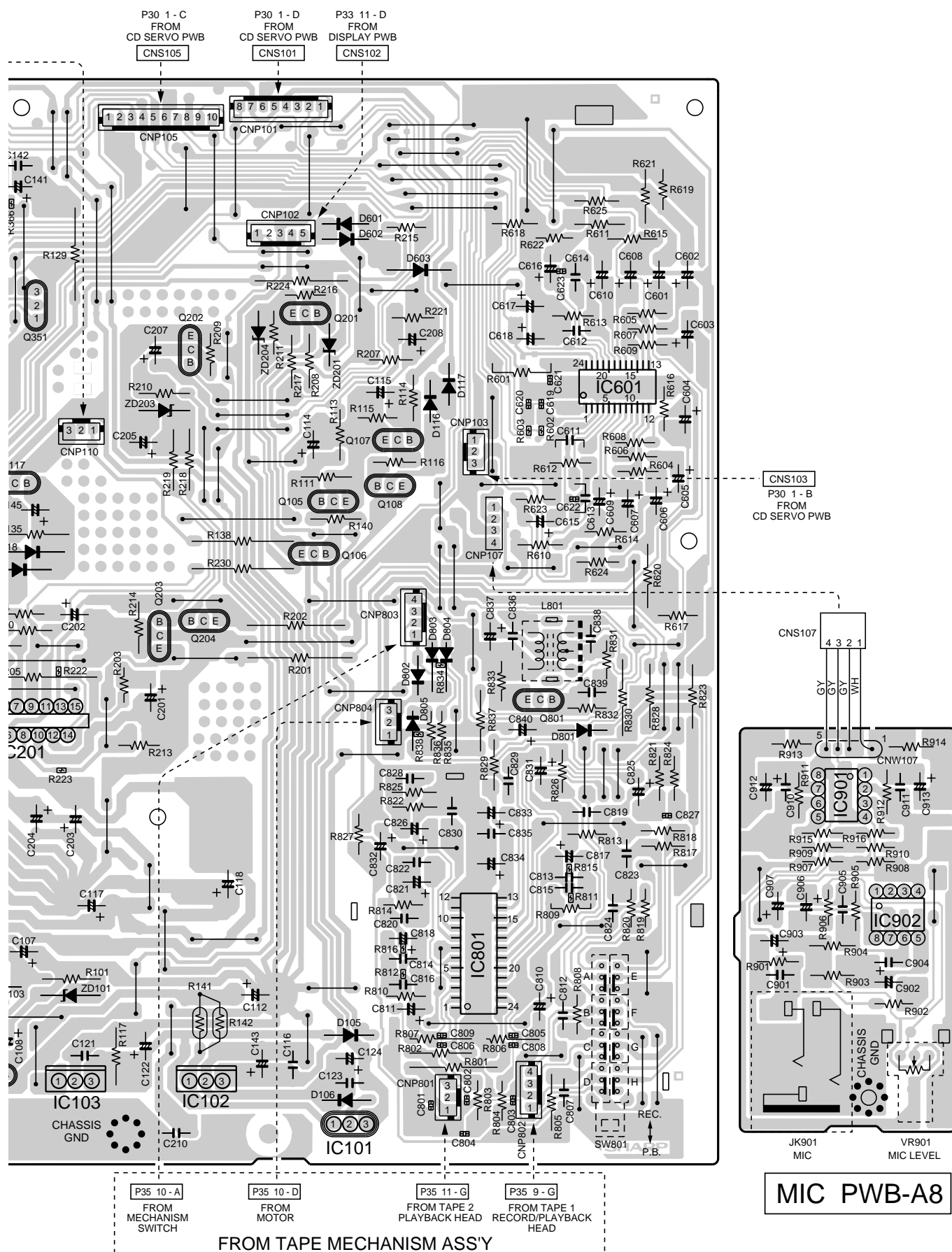


Figure 29 WIRING SIDE OF P.W.BOARD (2/8)

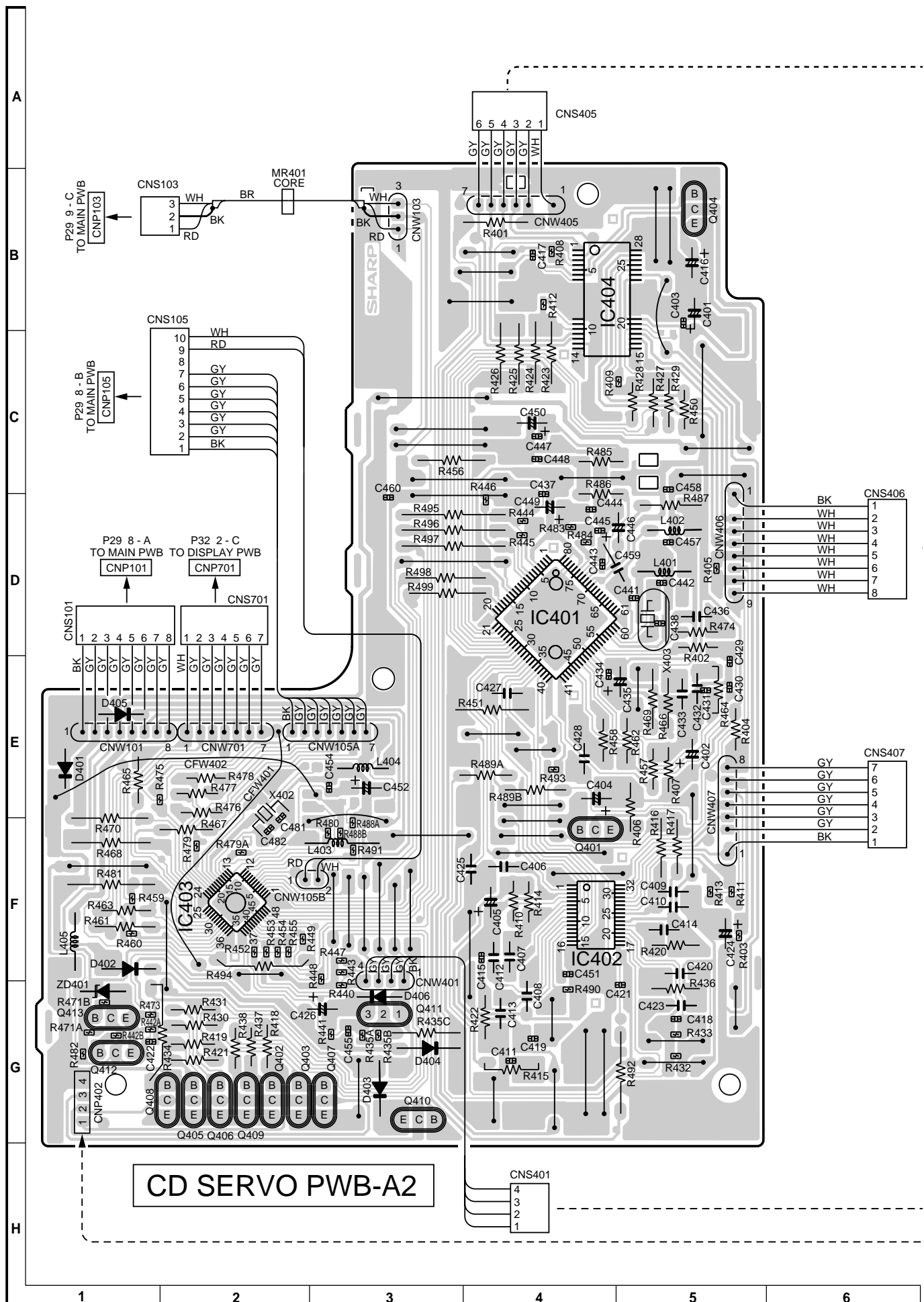


Figure 30 WIRING SIDE OF P.W.BOARD (3/8)

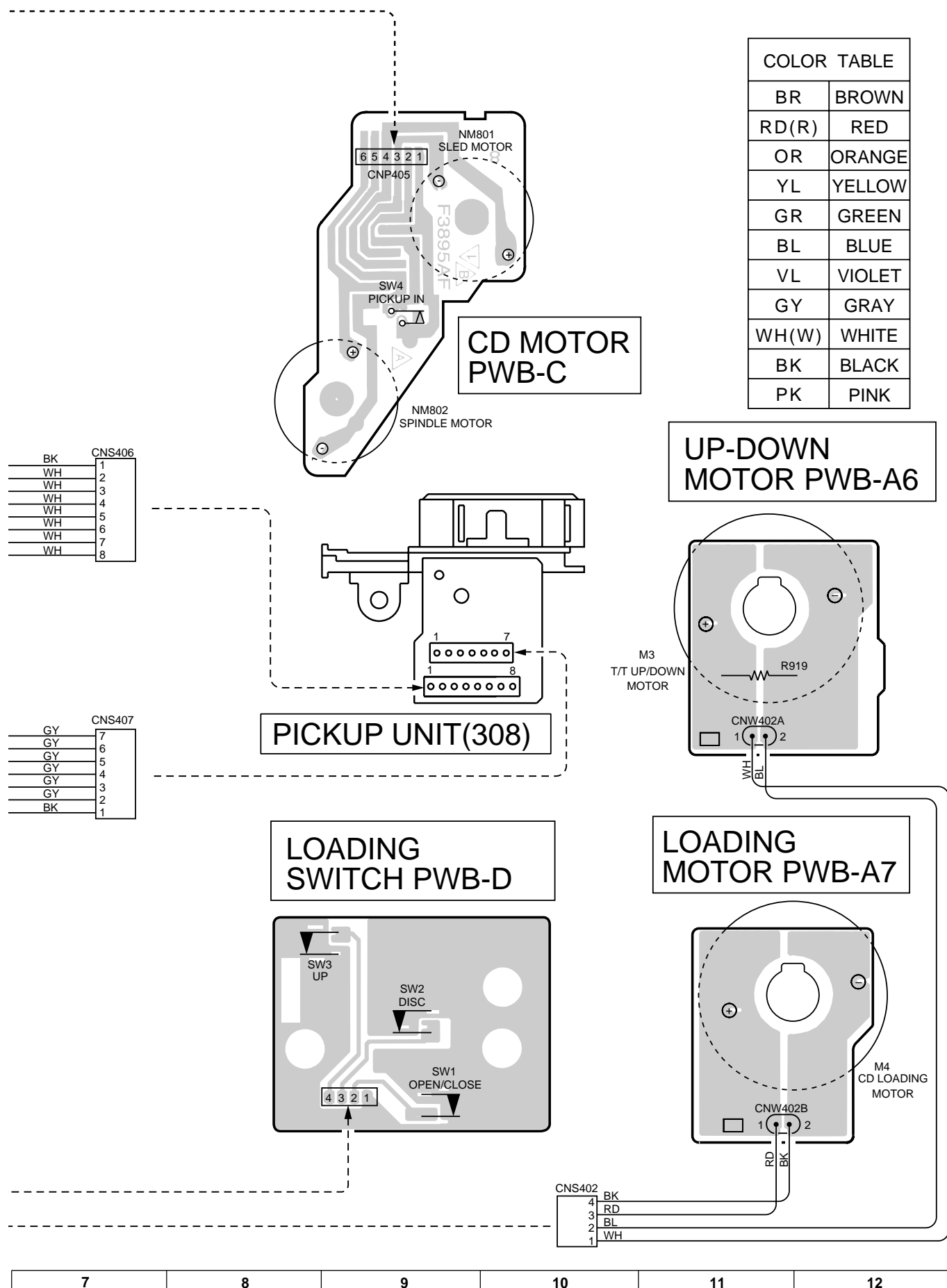


Figure 31 WIRING SIDE OF P.W.BOARD (4/8)

DISPLAY PWB-B

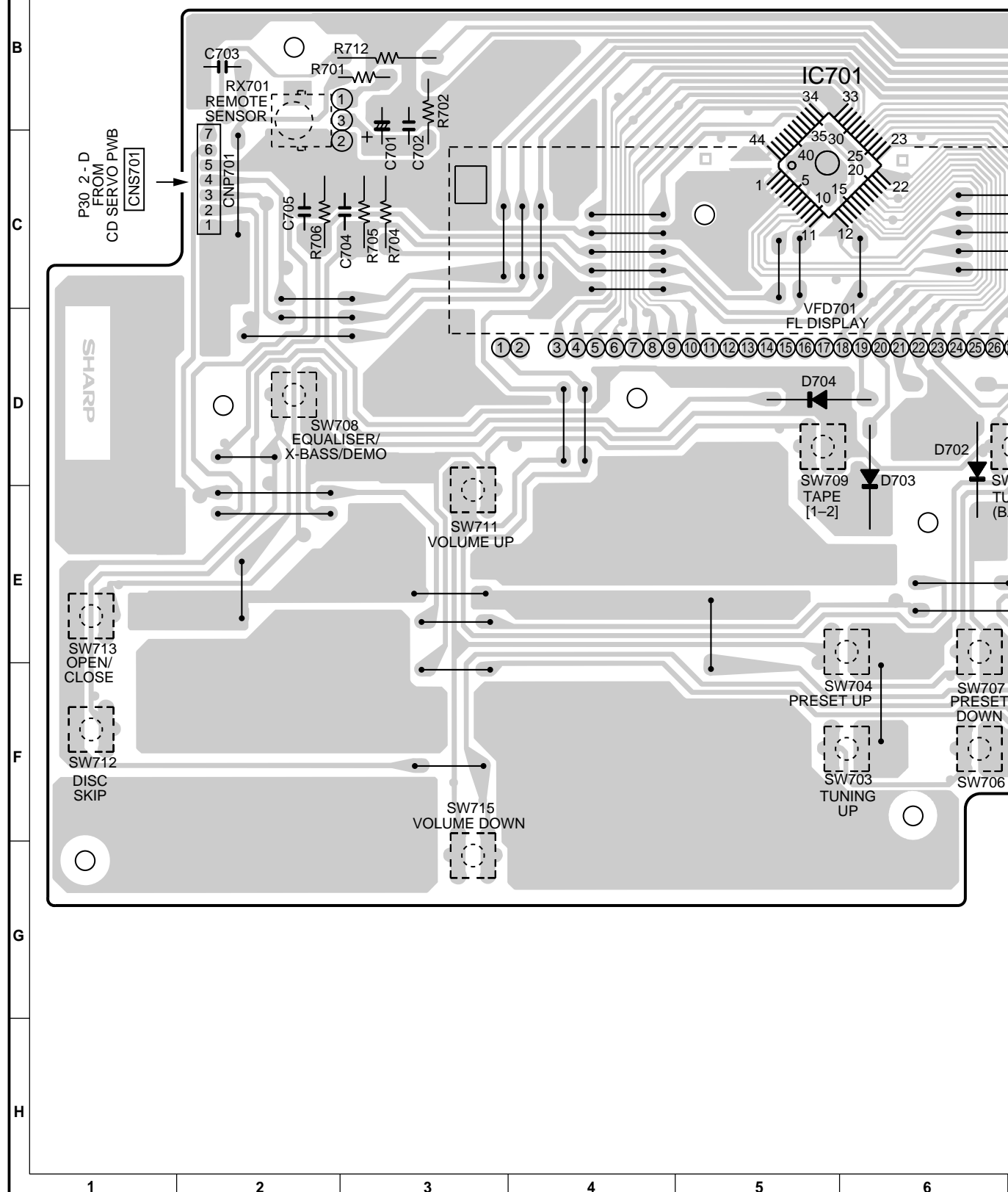
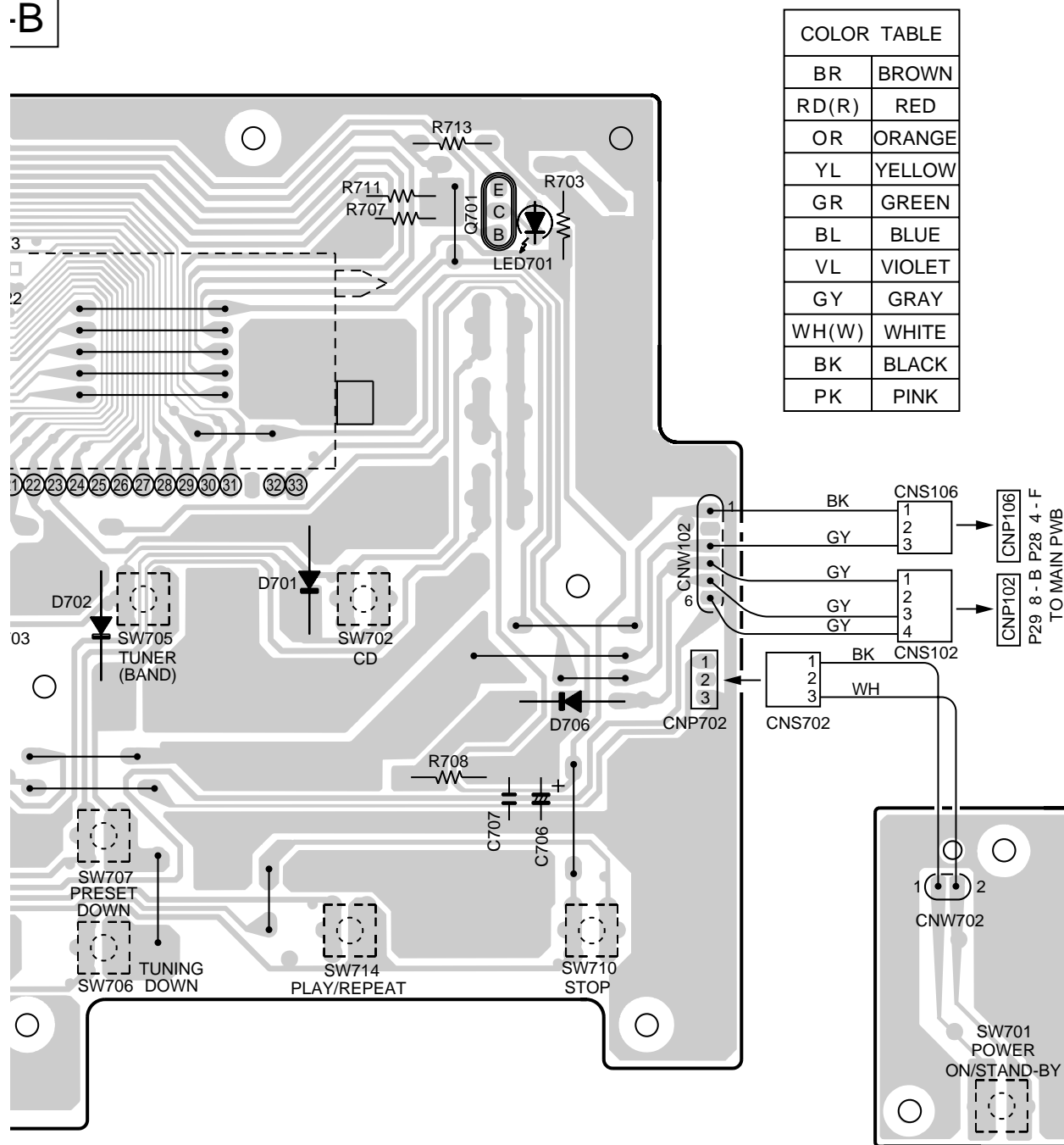


Figure 32 WIRING SIDE OF P.W.BOARD (5/8)

B



POWER
SWITCH PWB-A4

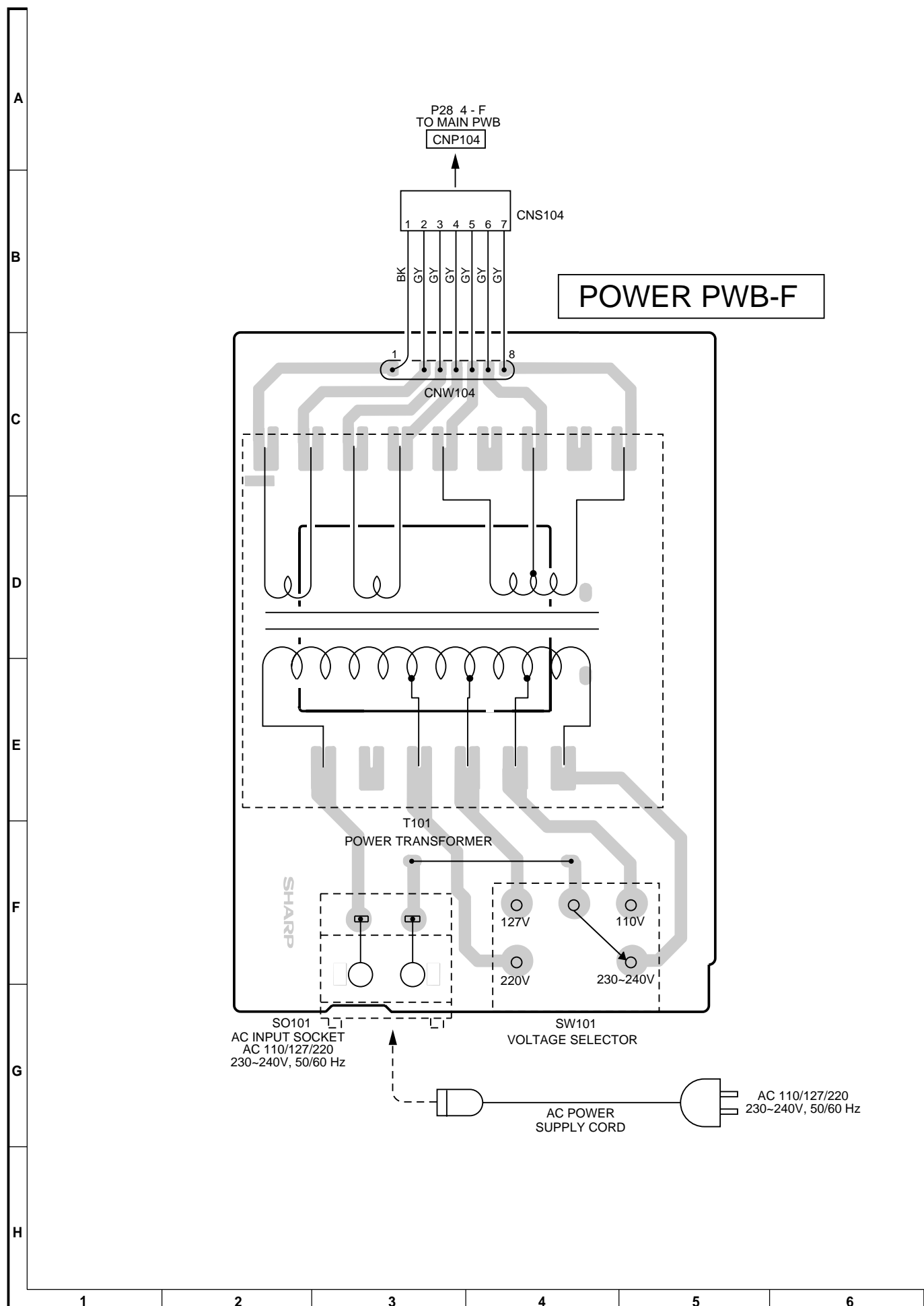
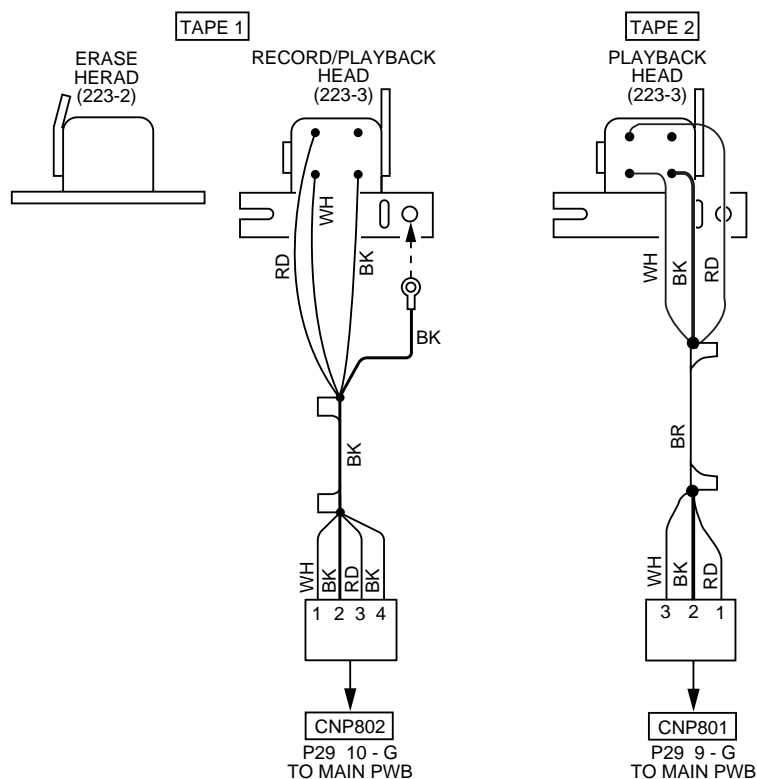
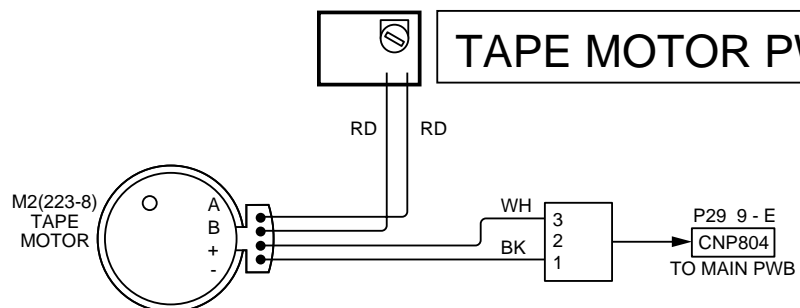
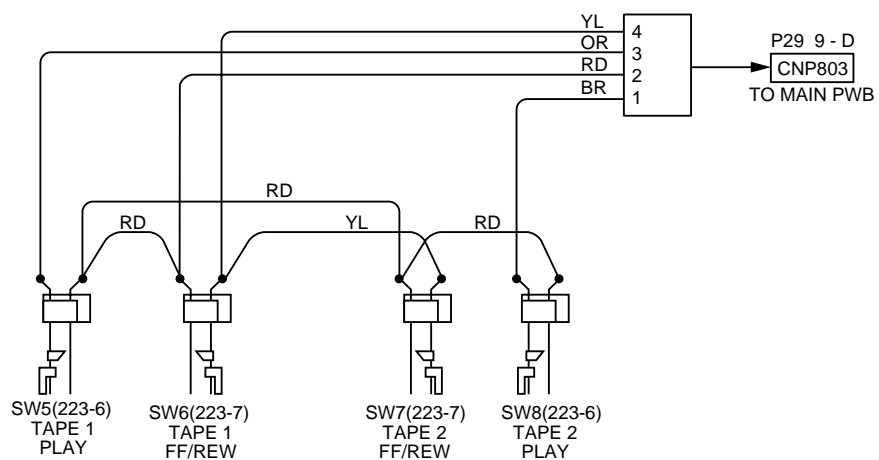


Figure 34 WIRING SIDE OF P.W.BOARD (7/8)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

FUNCTION TABLE OF IC

IC402 VHiAN22000A-1: Head Amp. (AN22000A)

Pin No.	Terminal Name	Function
1	PD	APC amp input.
2	LD	APC amp output.
3	VCC	Power supply.
4	RFN	RF amp inverting input.
5	RFOUT	RF addition amp output.
6	RFIN	AGC amp input.
7	CAGC	AGC loop filter connection.
8	ARF	AGC output.
9	CEA	Capacitor for HPF-amp connection.
10	3TOUT	3T-ENV output.
11	CBDO	Capacitor for RF dark-side envelope detection connection.
12	BDO	BDO output.
13	COFTR	Capacitor for RF bright-side envelope detection connection.
14	OFTR	OFTR output.
15	NRFDET	NRFDET output.
16	GND	Ground
17	VREF	VREF output.
18	VDET	VDET output.
19	TEBPF	VDET input.
20	TEOUT	TE amp output.
21	TEN	TE amp inverting input.
22	FEN	FE amp inverting input.
23	FEOUT	FE amp output.
24	GCTL	Gain & APC control.
25	FBAL	FBAL control.
26	TBAL	TBAL control.
27	E	Tracking signal input 1.
28	F	Tracking signal input 2.
29	D	Focus signal input 4.
30	B	Focus signal input 2.
31	C	Focus signal input 3.
32	A	Focus signal input 1.

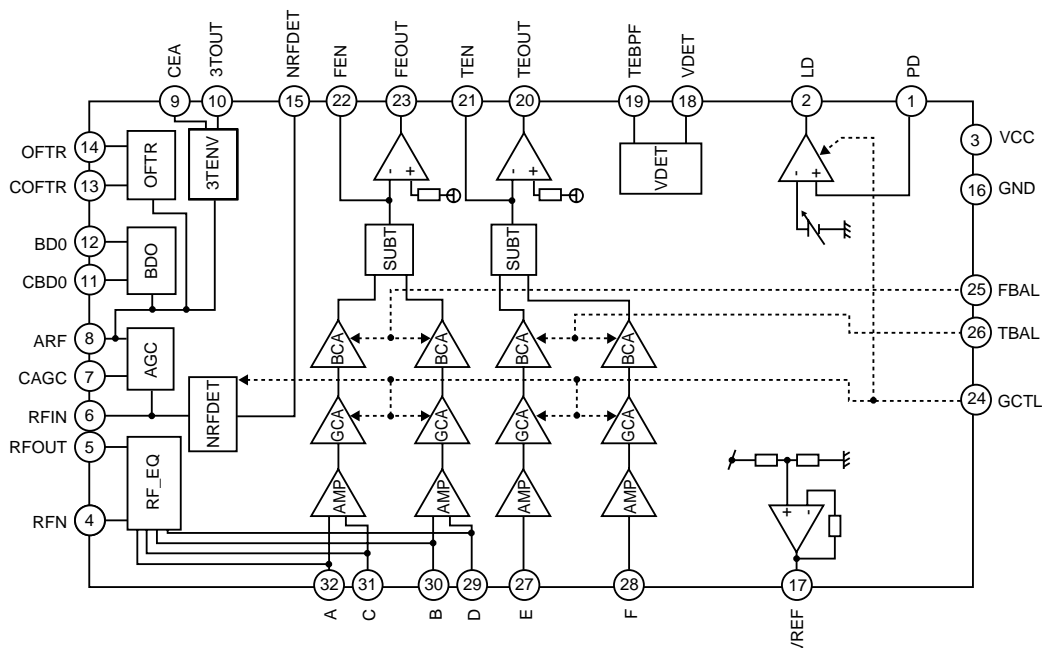


Figure 36 BLOCK DIAGRAM OF IC

IC401 VHiMN6627482W: Servo/Signal Control (MN6627482W) (1/2)

Pin No.	Terminal Name	Input/Output	Function
1*	BCLK	Output	SRDATA bit clock output.
2*	LRCK	Output	L/R identification signal output.
3*	SRDATA	Output	Serial data output.
4	DVDD1	Input	Digital circuit power supply.
5	DVSS1	Input	Digital circuit GND.
6*	TX	Output	Digital audio interface output signal.
7	MCLK	Input	Microcomputer command clock signal input. (Data latch at the rising edge.)
8	MDATA	Input	Microcomputer command data input.
9	MLD	Input	Microcomputer command load signal input. L: Load
10*	SENSE	Output	Sense signal output. (OFT, FESL, NACEND, NAJEND, SFG)
11*	/FLOCK	Output	Focus servo lead-in signal. (L: Lead-in)
12*	/TLOCK	Output	Tracking servo lead-in signal. (L: Lead-in)
13	BLKCK	Output	Subcode block clock signal. (fBLKCK=75 Hz)
14	SQCK, GIO0	Input	Default: external clock input for subcode Q resistor. Command execution: general purpose I/O port. CD-TEXT mode 2: TEXT data read clock input.
15*	SUBQ	Output	Subcode Q data output. CD-TEXT mode 2: TEEXT data output.
16	DMUTE	Input	Muting input. (Effective only at bit rate 64fs output.) H: Mute
17	STAT	Output	Status signal. (CRC, STCNT, CLVS, TTSTOP, JCLVS, SQOK, FLAG6, SENE, FLOCK, TLOCK, revolving speed data, FCLV, SUBQ, SYFLG) CD-TEXT mode 3: subcode Q and TEXT data output.
18	/RST	Input	Reset input (L: Reset)
19*	SMCK	Output	MSEL=H: 8.4672 MHz clock signal output. MSEL=L: 4.2336 MHz clock signal output.
20*	PMCK, PLAY	Output	Default: 88.2 kHz clock signal output. Command execution: Play signal output. H: play
21	TRV	Output	Traverse forcing transmission output. 3-State
22	TVD	Output	Traverse drive output.
23*	PC	Output	Spindle motor ON output. L: ON (Default)
24	ECM	Output	Spindle motor drive signal. (Forcing mode output.) 3-State
25	ECS	Output	Spindle motor drive signal. (Servo error signal output.)
26	KICK	Output	Kick pulse output. 3-State
27	TRD	Output	Tracking drive output.
28	FOD	Output	Focus drive output.
29	VREF	Input	DA output section (TVD, ECS, TRD, FOD, FBAL, TBAL, TOFS) reference voltage.
30	FBAL	Output	Focus balance adjustment output.
31	TBAL	Output	Tracking balance adjustment output.
32	FE	Input	Focus error signal input. (Analog input)
33	TE	Input	Tracking error signal input. (Analog input)
34	RFENV	Input	RF envelope signal input. (Analog input)
35	VDET	Input	Oscillation detection signal input. H: Detection
36	OFT	Input	Off track signal input. H: Off track
37	TRCRS	Input	Track cross signal input. (Analog input)
38	/RFDET	Input	RF detection signal input. L: Detection
39	BDO	Input	Drop out signal input. H: Drop out
40	LDON	Output	Laser ON signal output. H: ON
41	PLL2	Input/Output	Loop filter characteristic switch terminal for PLL.
42*	TOFS	Output	Tracking offset adjustment output. (Shared with general purpose DA output terminal.)
43*	WVEL	Output	Double-speed status signal output. H: Double-speed
44	ARF	Input	RF signal input.
45	IREF	Input	Reference current input terminal
46*	DRF	Input	DSL bias terminal.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

CD-XP160W**IC401 VHiMN6627482W: Servo/Signal Control (MN6627482W) (2/2)**

Pin No.	Terminal Name	Input/Output	Function
47	DSLIF	Input/Output	DSL loop filter terminal.
48	PLLIF	Input/Output	PLL loop filter terminal.
49	VCOF	Input/Output	VCO loop filter terminal.
50	AVDD2	Input	Analog circuit power supply. (DSL, PLL and DA output sections for AD)
51	AVSS2	Input	Analog circuit GND. (DSL, PLL and DA output sections for AD)
52*	EFM, CK384	Output	· IOSEL=H: EFM signal output. · IOSEL=L: X-tal system 16.9344 MHz clock output. Signal processing system: 384fs output. (VCO clock for jitter-free operation) (X-tal system or signal processing system can be selected by the command.)
53	PCK, DSLB	Output	PLL extraction clock output or DSL balance output. fPCK=4.3218 MHz
54	VCOF2	Input/Output	Loop filter terminal for digital servo 33.8688 MHz creation VCO. X-tal 16.9344 MHz: external circuit is needed.
55*	SUBC	Output	Subcode serial output. CD-TEXT mode 1: TEXT data output.
56*	SBCK	Input	Subcode serial output clock input. CD-TEXT mode 1: TEXT data read clock input
57	VSS	Input	Oscillation circuit GND.
58	X1	Input	Oscillation circuit input terminal. f=16.9344 MHz, 33.8688 MHz
59	X2	Output	Oscillation circuit output terminal. f=16.9344 MHz, 33.8688 MHz
60	VDD	Input	Oscillation circuit power supply.
61*	BYTCK, TRVSTP	Output	IOSEL=H: byte clock signal output. IOSEL=L: traverse STOP signal output. H: STOP Mode
62*	GIO1, /CLDCK	Output	Default: general purpose I/O port. Command execution: terminal for subcode frame clock signal output. (fCLDCK=7.35 kHz)
63*	GIO2, FCLK	Output	Default: general purpose I/O port. Command execution: crystal frame clock signal output. (fFCLK=7.35 kHz)
64*	IPFLAG	Output	Interpolation flag signal output. H: Interpolation
65*	FLAG	Output	Flag signal output.
66*	CLVS	Output	Output for spindle servo phase synchronization signal. H: CLV, L: Rough servo
67*	CRC	Output	Default: output for subcode CRC check results. H: OK, L: NG
68*	DEMPH	Output	Demphasis detection signal output. H: ON
69*	RESY, FLAG6	Output	IOSEL= H: resync signal RESY output for frame synchronization. H: Synchronization, L: Synchronization lost IOSEL=L: RAM address reset signal for error correct deinterleave. FLAG 6 output L: Address reset
70	IOSEL	Input	Mode switch terminal.
71	/TEST	Input	Test terminal. Normal: H
72	AVDD1	Input	Analog circuit power supply. (Audio output section (for both Lch and Rch))
73	OUTL	Output	Lch audio output.
74	AVSS1	Input	Analog circuit GND. (Audio output section (for both Lch and Rch))
75	OUTR	Output	Rch audio output.
76	RSEL, GIO3	Input	Default: RF signal polarity specification terminal. Brightness H: RESEL=H Brightness L: RESEL=L Command execution: general purpose I/O port. RF signal polarity can be specified by command. CD-TEXT mode 1 or 2: TEXT data read enabling signal (DQSY) output
77	CSEL	Input	Oscillation frequency specification terminal. H: Oscillation frequency=33.8688 MHz L: Oscillation frequency=16.9344 MHz
78	PSEL	Input	IOSEL=H: test terminal. (Normal: L) IOSEL=L: SRDATA input.
79	MSEL	Input	IOEL=H: SMCK terminal output, frequency switch terminal. H: SMCK=8.4672 MHz L: SMCK=4.2336 MHz IOSEL=L: LRCK input H: Lch data, L: Rch data SMCK=4.2336 MHz fixed
80	SSEL	Input	IOSEL=H: switch terminal for SUBQ terminal output mode. H: Q code buffer mode L: CLDCK synchronization mode IOSEL=L: BCLK input Q code buffer mode fixed

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC401 VHiMN6627482W: Servo/Signal Control (MN6627482W)

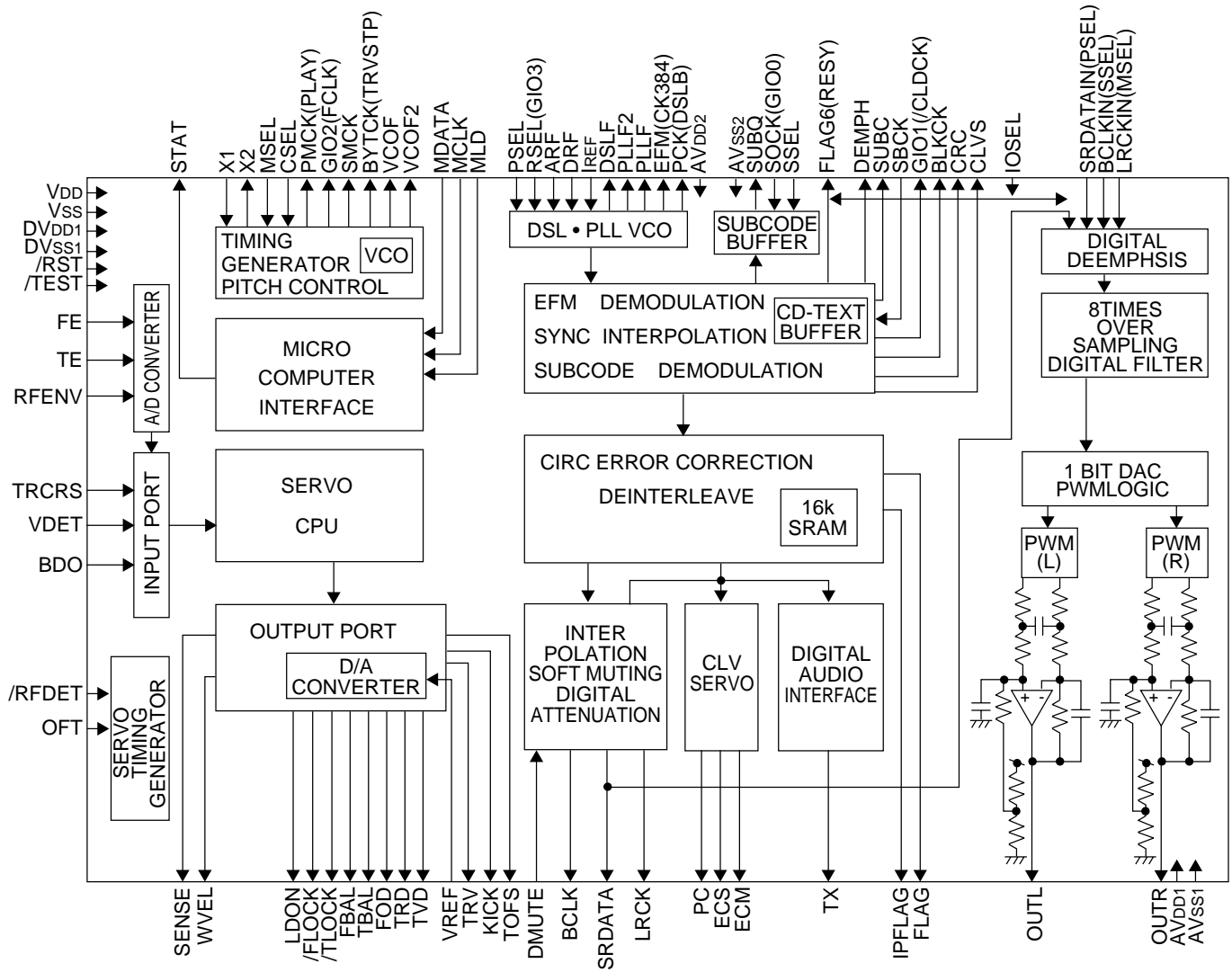
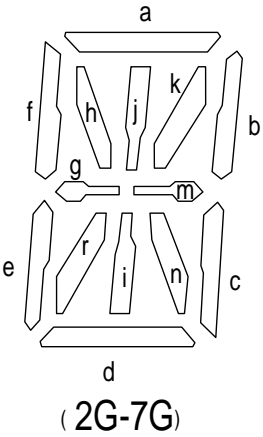
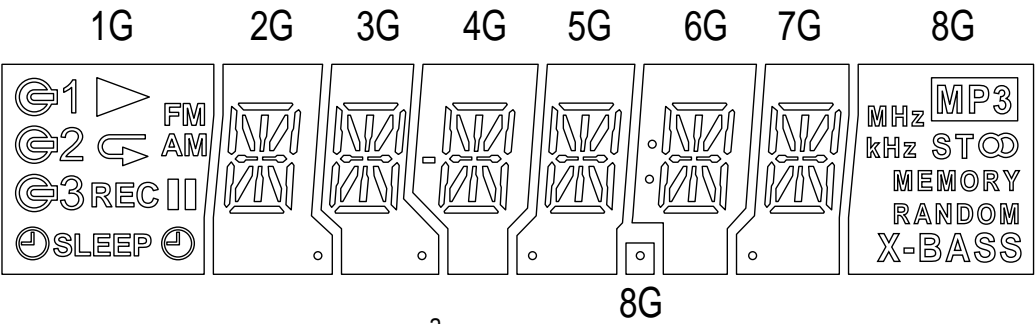


Figure 39 BLOCK DIAGRAM OF IC

FL DISPLAY

VFD701 VVK250808//1



PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
CONNECTION	F	F	NP	1G	2G	3G	4G	5G	6G	7G	8G	NC	NC	NC	NC	NC	NC	NC
PIN NO.	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
CONNECTION	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	NP	F		

	1G	2G	3G	4G	5G	6G	7G	8G
P1	▷	k	k	k	k	k	k	MEMORY
P2	⌚	h	h	h	h	h	h	ST
P3	⌚	f	f	f	f	f	f	kHz
P4	⌚	b	b	b	b	b	b	MHz
P5	◊	a	a	a	a	a	a	MP3
P6	⌚	g	g	g	g	g	g	RANDOM
P7	FM	m	m	m	m	m	m	X-BASS
P8	AM	r	r	r	r	r	r	◊
P9	REC	j	j	j	j	j	j	⌚
P10	⏸	n	n	n	n	n	n	◊
P11	(Left) ⌚	c	c	c	c	c	c	◊
P12	SLEEP	e	e	e	e	e	e	◊
P13	(Right) ⌚	d	d	d	d	d	d	◊
P14	◊	○	○	◊	○	○	○	○

SHARP PARTS GUIDE

MINI COMPONENT SYSTEM

MODEL CD-XP160W

CD-XP160W Mini Component System consisting of CD-XP160W (main unit) and CP-XP160 (speaker system).

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

- | | |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. No. |
| 3. PART NO. | 4. DESCRIPTION |

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,
Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

VCC Ceramic type
 VCK Ceramic type
 VCT Semiconductor type
 VC •• MF Cylindrical type (without lead wire)
 VC •• MN Cylindrical type (without lead wire)
 VC •• TV Square type (without lead wire)
 VC •• TQ Square type (without lead wire)
 VC •• CY Square type (without lead wire)
 VC •• CZ Square type (without lead wire)
 VC J .. The 13th character represents capacity difference.
 ("J" $\pm 5\%$, "K" $\pm 10\%$, "M" $\pm 20\%$, "N" $\pm 30\%$,
 "C" ± 0.25 pF, "D" ± 0.5 pF, "Z" $+80-20\%$.)

If there are no indications for the electrolytic capacitors, error is $\pm 20\%$.

Resistors

VRD Carbon-film type
 VRS Carbon-film type
 VRN Metal-film type
 VR •• MF Cylindrical type (without lead wire)
 VR •• MN Cylindrical type (without lead wire)
 VR •• TV Square type (without lead wire)
 VR •• TQ Square type (without lead wire)
 VR •• CY Square type (without lead wire)
 VR •• CZ Square type (without lead wire)
 VR J .. The 13th character represents error.
 ("J" $\pm 5\%$, "F" $\pm 1\%$, "D" $\pm 0.5\%$.)

If there are no indications for other parts, the resistors are $\pm 5\%$ carbon-film type.

NOTE:

Parts marked with "△" are important for maintaining the safety of the set.

Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

CD-XP160W

NO.	PART CODE	★ PRICE RANK	DESCRIPTION
INTEGRATED CIRCUITS			
IC101	VHIAN78L05/-1	J AE	Voltage Regulator,AN78L05
IC102	VHIKIA7810API	J AE	Voltage Regulator,KIA7810API
IC103	VHIKIA7808API	J AF	Voltage Regulator,KIA7808API
IC201	VHILM4765T+-1	J AW	Power Amp.,LM4765T+
IC301	VHITA7358AP-1	J AG	FM Front End,TA7358AP
IC302	VHILC72131/-1	J AP	PLL (Tuner),LC72131
IC303	VHILA1832S/-1	J AN	FM IF Det./FM Mpx./AM IF, LA1832S
IC401	VHIMN6627482W	J AV	Servo/Signal Control, MN6627482W
IC402	VHIAN22000A-1	J AF	Head Amp.,AN22000A
IC403	RH-IX0052SJZZ	J AV	System Microcomputer, IX0052SJ
IC404	VHIMM1469XH-1	J AN	Focus/Tracking/Spin/Sled Driver, MM1469XH
IC601	VHILC75341M-1	J AM	Audio Processor,LC75341M
IC701	VHISC16312/-1	J BD	System Microcomputer,SC16312
IC801	VHIAN7345K/-1	J AM	Playback and Record/Playback Amp.,AN7345K
IC901	VHINJM4558D-1	J AH	Ope. Amp.,NJM4558D
IC902	VHINJM4558D-1	J AH	Ope. Amp.,NJM4558D
TRANSISTORS			
Q101	VSKSA1015GR-1	J AB	Silicon,PNP,KSA1015 GR
Q102	VSKSC1815GR-1	J AB	Silicon,NPN,KSC1815 GR
Q103	VSKSA1015GR-1	J AB	Silicon,PNP,KSA1015 GR
Q104	VSKSC1815GR-1	J AB	Silicon,NPN,KSC1815 GR
Q105	VSKRC107M/-1	J AC	Digital,NPN,KRC107 M
Q106	VSHSB562-C/-1	J AC	Silicon,PNP,HSB562 C
Q107	VSKSC1815GR-1	J AB	Silicon,NPN,KSC1815 GR
Q108	VSHSB562-C/-1	J AC	Silicon,PNP,HSB562 C
Q117	VSKSC1815GR-1	J AB	Silicon,NPN,KSC1815 GR
Q201	VSKSC1815GR-1	J AB	Silicon,NPN,KSC1815 GR
Q202	VSHSC1609GR-1	J AC	Silicon,NPN,HSC1609 GR
Q203,204	VSKSC1815GR-1	J AB	Silicon,NPN,KSC1815 GR
Q302	VSSC1674-C/-1	J AC	Silicon,NPN,SSC1674 C
Q306	VSSC1674-C/-1	J AC	Silicon,NPN,SSC1674 C
Q351	VSKRC104M/-1	J AC	Digital,NPN,KRC104 M
Q360	VSKSA1015GR-1	J AB	Silicon,PNP,KSA1015 GR
Q401	VSKSA1015GR-1	J AB	Silicon,PNP,KSA1015 GR
Q402	VSKSC3203Y/-1	J AC	Silicon,NPN,KSC3203 Y
Q403	VSKSA1271Y/-1	J AC	Silicon,PNP,KSA1271 Y
Q404	VSHSB562-C/-1	J AC	Silicon,PNP,HSB562 C
Q405,406	VSKSC1815GR-1	J AB	Silicon,NPN,KSC1815 GR
Q407	VSKSA1271Y/-1	J AC	Silicon,PNP,KSA1271 Y
Q408	VSKSC3203Y/-1	J AC	Silicon,NPN,KSC3203 Y
Q409	VSKSC1815GR-1	J AB	Silicon,NPN,KSC1815 GR
Q410	VSKSA1271Y/-1	J AC	Silicon,PNP,KSA1271 Y
Q411	VSKRC102M/-1	J AC	Digital,NPN,KRC102 M
Q412,413	VSKSC1815GR-1	J AB	Silicon,NPN,KSC1815 GR
Q701	VSKSC1815GR-1	J AB	Silicon,NPN,KSC1815 GR
Q801	VSKSC1815GR-1	J AB	Silicon,NPN,KSC1815 GR
DIODES			
D101~106	VHD1N4004/-1	J AB	Silicon,1N4004
△ D108~111	VHD1N5402M/-1	J AE	Silicon,1N5402M
△ D112~115	VHD1N4004/-1	J AB	Silicon,1N4004
D116~118	VHD1N4004/-1	J AB	Silicon,1N4004
D120	VHD1N4004/-1	J AB	Silicon,1N4004
D301,302	VHD1N4148/-1	J AA	Silicon,1N4148
D305~308	VHD1N4148/-1	J AA	Silicon,1N4148
D401	VHD1N4148/-1	J AA	Silicon,1N4148
D402,403	VHD1N4004/-1	J AB	Silicon,1N4004
D404~406	VHD1N4148/-1	J AA	Silicon,1N4148
D601~603	VHD1N4148/-1	J AA	Silicon,1N4148
D701~704	VHD1SS133/-1	J AA	Silicon,1SS133
D706	VHD1N4004/-1	J AB	Silicon,1N4004
D801	VHD1N4004/-1	J AB	Silicon,1N4004
D802~805	VHD1N4148/-1	J AA	Silicon,1N4148
LED701	VHPSD3210W+-1	J AC	LED,White,SD3210W
△ R141,142	VHHRXE030/-1	J AN	Thermistor
VD301	VHCSVC348S/-1	J AK	Variable Capacitance,SVC348S
VD302,303	VHCKDV147B/-1	J AH	Variable Capacitance,KDV147B
ZD101	VHEDZH3001+-1	J AB	Zener,30V,DZH3001+
ZD102	VHEDZH06C2+-1	J AB	Zener,6.2V,DZH06C2+
ZD201	VHEDZH03C3+-1	J AB	Zener,3.3V,DZH03C3+
ZD203,204	VHEDZH03C3+-1	J AB	Zener,3.3V,DZH03C3+

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
ZD351	VHEDZH05C2+-1	J AB	Zener,5.1V,DZH05C2+
ZD401	VHEDZH03C3+-1	J AB	Zener,3.3V,DZH03C3+
FILTERS			
BF301	RFILR0008AWZZ	J AE	Band Pass Filter
CF302,303	RFILF0004SJZZ	J AG	FM IF,10.7 MHz
CF351	RFILF0003AWZZ	J AK	FM IF
CF352	RFILA0003SJZZ	J AF	AM IF
TRANSFORMERS			
△ T101	RTRNP0122SJZZ	J BA	Power Transformer
T302	RCILA0007SJZZ	J AG	AM Tracking
T304	RCILI0005SJZZ	J AF	FM IF
T306	RCILB0009SJZZ	J AG	AM OSC.
T351	RCILI0004SJZZ	J AF	AM IF
COILS			
L101,102	RCILZ0024AWZZ	J AC	3 μH,Choke
L103	VP-DH100K0000	J AB	10 μH,Choke
L302	RCILR0003SJZZ	J AD	FM RF
L303	RCILB0016SJZZ	J AD	FM OSC.
L351,352	VP-DH101K0000	J AB	100 μH,Choke
L353	VP-DH102K0000	J AB	1 mH,Choke
L401,402	VP-DHR82K0000	J AE	0.82 μH,Choke
L403~405	VP-DH2R2K0000	J AB	2.2 μH,Peaking
L801	RCILB0003SJZZ	J AD	OSC,Bias
VARIABLE RESISTORS			
VR351	RVR-M0026AWZZ	J AC	10 kohm (B),Semi-VR [FM Mute Level]
VR901	RVR-B0007SJZZ	J AE	20 kohms (B),Semi-VR [Mic Level]
VIBRATORS			
X351	RCRM-0007SJZZ	J AG	VCO,456 kHz
X352	RCRSP0003SJZZ	J AL	Crystal,4.5 MHz
X402	RCRSP0012SJZZ	J J	Crystal,8 MHz
X403	RCRSP0002SJZZ	J AL	Crystal,16.93 MHz
CAPACITORS			
C101,102	RC-GZA107AF1H	J AC	100 μF,50V,Electrolytic
C103~106	VCFYFA1HA104J	J AC	0.1 μF,50V,Thin Film
C107	RC-GZV227AF1H	J AC	220 μF,50V,Electrolytic
C108	RC-GZA476AF1H	J AB	47 μF,50V,Electrolytic
C109	RC-GZV337AF1V	J AB	330 μF,35V,Electrolytic
C110	RC-GZA107AF1H	J AC	100 μF,50V,Electrolytic
C111	RC-GZA477AF1E	J AC	470 μF,25V,Electrolytic
C112	RC-GZW338AF1E	J AG	3300 μF,25V,Electrolytic
C114	RC-GZA476AF1E	J AB	47 μF,25V,Electrolytic
C115	RC-GZA476AF1C	J AB	47 μF,16V,Electrolytic
C116	VCKYPA1HF223Z	J AB	0.022 μF,50V
C117,118	RC-GZW478AF1V	J AH	4700 μF,35V,Electrolytic
C121	VCKYPA1HF223Z	J AB	0.022 μF,50V
C122	RC-GZA477AF1C	J AC	470 μF,16V,Electrolytic
C123	VCFYFA1HA473J	J AB	0.047 μF,50V,Thin Film
C124	RC-GZA476AF1E	J AB	47 μF,25V,Electrolytic
C125~128	VCFYFA1HA104J	J AC	0.1 μF,50V,Thin Film
C133,134	VCKYPA1HB472K	J AB	0.0047 μF,50V
C141	RC-GZA107AF1C	J AB	100 μF,16V,Electrolytic
C142	VCKYPA1HF223Z	J AB	0.022 μF,50V
C143	RC-GZA227AF1E	J AB	220 μF,25V,Electrolytic
C145	RC-GZA107AF1E	J AB	100 μF,25V,Electrolytic
C201~204	RC-GZA476AF1H	J AB	47 μF,50V,Electrolytic
C205	RC-GZA107AF1C	J AB	100 μF,16V,Electrolytic
C207	RC-GZA476AF1E	J AB	47 μF,25V,Electrolytic
C208	RC-GZA477AF1C	J AC	470 μF,16V,Electrolytic
C210	VCKYPA1HB101K	J AA	100 pF,50V
C301	VCKYCY1EF123Z	J AA	0.012 μF,25V
C302,303	VCKYCY1HB102K	J AA	0.001 μF,50V
C304	VCKYCY1EF103Z	J AA	0.01 μF,25V
C305	VCKYCY1HB472K	J AA	0.0047 μF,50V
C306	VCCUCY1HJ9R0D	J AB	9 pF (UJ),50V
C307	VCKYCY1HB472K	J AA	0.0047 μF,50V
C308	VCKYCY1EF223Z	J AB	0.022 μF,25V

NO.	PART CODE	★	PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C309	VCKYCY1HB102K	J	AA	0.001 μF,50V	C429	VCKYCY1EF123Z	J	AA	0.012 μF,25V
C311	VCCCCY1HH100J	J	AA	10 pF (CH),50V	C430	VCKYCY1EF104Z	J	AA	0.1 μF,25V
C312	VCCSCY1HL330J	J	AD	33 pF,50V	C431	VCKYCY1HB102K	J	AA	0.001 μF,50V
C313	VCCUCY1HJ6R0D	J	AB	6 pF (UJ),50V	C432	VCKYPA1HF684Z	J	AC	0.68 μF,50V
C314	VCCCCY1HH220J	J	AA	22 pF (CH),50V	C433	VCKYPA1HF334Z	J	AC	0.33 μF,50V
C315	VCKYCY1HB101K	J	AB	100 pF,50V	C434	VCKYCY1EF104Z	J	AA	0.1 μF,25V
C316	RC-GZA106AF1C	J	AB	10 μF,16V,Electrolytic	C435	RC-EZD107AF1A	J	AB	100 μF,10V,Electrolytic
C317	VCKYCY1EF223Z	J	AB	0.022 μF,25V	C436	VCKYPA1HF334Z	J	AC	0.33 μF,50V
C318	VCCSCY1HL5R0C	J	AD	5 pF,50V	C437	VCKYCY1EF104Z	J	AA	0.1 μF,25V
C319	VCCCCY1HH180J	J	AA	18 pF (CH),50V	C438	VCCCCY1HH150J	J	AA	15 pF (CH),50V
C320	VCKYCY1HB102K	J	AA	0.001 μF,50V	C441	VCKYCY1EF104Z	J	AA	0.1 μF,25V
C321	VCKYCY1HB332K	J	AA	0.0033 μF,50V	C442	VCCCCY1HH150J	J	AA	15 pF (CH),50V
C329	VCKYCY1EF223Z	J	AB	0.022 μF,25V	C443	VCKYCY1EF104Z	J	AA	0.1 μF,25V
C330	VCCCPA1HH120J	J	AA	12 pF (CH),50V	C444	VCKYCY1HB272K	J	AA	0.0027 μF,50V
C331	VCKYCY1EF473Z	J	AB	0.047 μF,25V	C445	VCKYCY1HB102K	J	AA	0.001 μF,50V
C332	VCKYPA1HF223Z	J	AB	0.022 μF,50V	C446	RC-GZA477AF0J	J	AB	470 μF,6.3V,Electrolytic
C334	VCCUPA1HJ270J	J	AA	27 pF (UJ),50V	C447	VCKYCY1HB272K	J	AA	0.0027 μF,50V
C335	VCKYCY1HB561K	J	AA	560 pF,50V	C448	VCKYCY1HB102K	J	AA	0.001 μF,50V
C337	VCKYPA1HF223Z	J	AB	0.022 μF,50V	C449,450	RC-EZD106AF1H	J	AB	10 μF,50V,Electrolytic
C343,344	VCCSCY1HL330J	J	AD	33 pF,50V	C451	VCCCCY1HH121J	J	AA	120 pF (CH),50V
C349	VCKYCY1HB102K	J	AA	0.001 μF,50V	C452	RC-GZA107AF1A	J	AB	100 μF,10V,Electrolytic
C350,351	VCKYCY1EF223Z	J	AB	0.022 μF,25V	C454,455	VCKYCY1EF104Z	J	AA	0.1 μF,25V
C352	RC-GZA106AF1C	J	AB	10 μF,16V,Electrolytic	C457,458	VCKYCY1EF473Z	J	AB	0.047 μF,25V
C353,354	VCKYCY1EF223Z	J	AB	0.022 μF,25V	C459	VCKYPA1HF103Z	J	AB	0.01 μF,50V
C355	VCCSCY1HL220J	J	AD	22 pF,50V	C460	VCKYCY1EF223Z	J	AB	0.022 μF,25V
C356	VCKYCY1HB102K	J	AA	0.001 μF,50V	C481,482	VCCCCY1HH240J	J	AA	24 pF,50V
C357	RC-GZA225AF1H	J	AB	2.2 μF,50V,Electrolytic	C601~606	RC-GZA106AF1C	J	AB	10 μF,16V,Electrolytic
C358	RC-GZA105AF1H	J	AB	1 μF,50V,Electrolytic	C607,608	RC-GZA475AF1H	J	AB	4.7 μF,50V,Electrolytic
C360,361	VCKYCY1EF223Z	J	AB	0.022 μF,25V	C609,610	RC-GZA225AF1H	J	AB	2.2 μF,50V,Electrolytic
C362	RC-GZA335AF1H	J	AB	3.3 μF,50V,Electrolytic	C611,612	VCKYPA1HB272K	J	AA	0.0027 μF,50V
C363	VCKYCY1EF223Z	J	AB	0.022 μF,25V	C613,614	RC-QZA104AFYJ	J	AC	0.1 μF,50V,Mylar
C364	RC-GZA106AF1C	J	AB	10 μF,16V,Electrolytic	C615,616	RC-GZA225AF1C	J	AC	2.2 μF,16V,Electrolytic
C365	VCKYCY1EF223Z	J	AB	0.022 μF,25V	C617	RC-GZA336AF1C	J	AB	33 μF,16V,Electrolytic
C366	VCKYCY1HB102K	J	AA	0.001 μF,50V	C618	RC-GZA107AF1C	J	AB	100 μF,16V,Electrolytic
C367,368	RC-GZA105AF1H	J	AB	1 μF,50V,Electrolytic	C619~621	VCKYCY1HB221K	J	AA	220 pF,50V
C369	VCCSCY1HL560J	J	AD	56 pF,50V	C622,623	VCKYCY1EF104Z	J	AA	0.1 μF,25V
C370~372	RC-GZA105AF1H	J	AB	1 μF,50V,Electrolytic	C701	RC-GZA107AF1A	J	AB	100 μF,10V,Electrolytic
C373,374	VCTYPA1CX223K	J	AA	0.022 μF,16V	C702	VCKYPA1HF473Z	J	AB	0.047 μF,50V
C378	VCKYPA1HB331K	J	AA	330 pF,50V	C703~705	VCKYPA1HB101K	J	AA	100 pF,50V
C380	RC-GZA106AF1C	J	AB	10 μF,16V,Electrolytic	C706	RC-GZA107AF1C	J	AB	100 μF,16V,Electrolytic
C381	VCCCCY1HH120J	J	AA	12 pF (CH),50V	C707	VCKYPA1HF333Z	J	AA	0.033 μF,50V
C382	VCCCCY1HH150J	J	AA	15 pF (CH),50V	C801~804	VCKYCY1HB561K	J	AA	560 pF,50V
C383	VCKYCY1EF223Z	J	AB	0.022 μF,25V	C805,806	VCKYCY1HB331K	J	AA	330 pF,50V
C384	VCKYCY1HB102K	J	AA	0.001 μF,50V	C807	VCKYPA1HB272K	J	AA	0.0027 μF,50V
C385	VCKYPA1HF103Z	J	AB	0.01 μF,50V	C808,809	VCKYCY1HB331K	J	AA	330 pF,50V
C386	VCKYPA1HB331K	J	AA	330 pF,50V	C810,811	RC-GZA107AF1E	J	AB	100 μF,25V,Electrolytic
C387	VCKYCY1EF223Z	J	AB	0.022 μF,25V	C812	VCKYPA1HB272K	J	AA	0.0027 μF,50V
C391	RC-GZA476AF1C	J	AB	47 μF,16V,Electrolytic	C813,814	VCKYPA1HB561K	J	AA	560 pF,50V
C392	VCKYCY1HB102K	J	AA	0.001 μF,50V	C815,816	VCKYPA1HF333Z	J	AA	0.033 μF,50V
C393	RC-GZA105AF1H	J	AB	1 μF,50V,Electrolytic	C817,818	RC-GZA476AF1E	J	AB	47 μF,25V,Electrolytic
C394	RC-GZA476AF1C	J	AB	47 μF,16V,Electrolytic	C819,820	VCKYPA1HB222K	J	AA	0.0022 μF,50V
C395	VCKYCY1EF223Z	J	AB	0.022 μF,25V	C821	RC-GZA335AF1H	J	AB	3.3 μF,50V,Electrolytic
C396	RC-GZA107AF1A	J	AB	100 μF,10V,Electrolytic	C822	VCKYPA1HF223Z	J	AB	0.022 μF,50V
C397	VCKYCY1EF223Z	J	AB	0.022 μF,25V	C823,824	VCKYPA1HB102K	J	AA	0.001 μF,50V
C398	RC-GZA107AF1A	J	AB	100 μF,10V,Electrolytic	C825,826	RC-GZA226AF1H	J	AB	22 μF,50V,Electrolytic
C399	VCKYPA1HF223Z	J	AB	0.022 μF,50V	C827	VCKYCY1EF223Z	J	AB	0.022 μF,25V
C401	RC-GZA477AF1C	J	AC	470 μF,16V,Electrolytic	C828	VCKYPA1HF223Z	J	AB	0.022 μF,50V
C402	RC-EZD476AF1A	J	AC	47 μF,10V,Electrolytic	C829,830	VCKYPA1HB332K	J	AA	0.0033 μF,50V
C403	VCKYCY1EF104Z	J	AA	0.1 μF,25V	C831,832	RC-GZA476AF1E	J	AB	47 μF,25V,Electrolytic
C404	RC-GZA476AF1C	J	AB	47 μF,16V,Electrolytic	C833	RC-GZA226AF1H	J	AB	22 μF,50V,Electrolytic
C405	RC-GZA226AF1H	J	AB	22 μF,50V,Electrolytic	C834	RC-GZA227AF1C	J	AB	220 μF,16V,Electrolytic
C406	VCFYFA1HA104J	J	AC	0.1 μF,50V,Thin Film	C835	VCKYPA1HF223Z	J	AB	0.022 μF,50V
C407	VCKYPA1HF334Z	J	AC	0.33 μF,50V	C836	VCQYKA1HM222K	J	AA	0.0022 μF,50V,Mylar
C408	VCFYFA1HA104J	J	AC	0.1 μF,50V,Thin Film	C837	RC-GZA107AF1A	J	AB	100 μF,10V,Electrolytic
C409,410	VCCSPA1HL820J	J	AA	82 pF,50V	C838	VCQYKA1HM223K	J	AB	0.022 μF,50V,Mylar
C411	VCKYCY1HB101K	J	AB	100 pF,50V	C839	VCQYKA1HM472K	J	AB	0.0047 μF,50V,Mylar
C412,413	VCKYPA1HF273Z	J	AA	0.027 μF,50V	C840	RC-GZA227AF1C	J	AB	220 μF,16V,Electrolytic
C414	VCKYPA1HB331K	J	AA	330 pF,50V	C901	VCKYPA1HB152K	J	AA	0.0015 μF,50V
C415	VCKYCY1HB562K	J	AA	0.0056 μF,50V	C902	RC-GZA224AF1C	J	AB	0.22 μF,16V,Electrolytic
C416	RC-GZA476AF1C	J	AB	47 μF,16V,Electrolytic	C903	RC-GZA107AF1C	J	AB	100 μF,16V,Electrolytic
C417	VCKYCY1EF103Z	J	AA	0.01 μF,25V	C904	VCKYPA1HB221K	J	AA	220 pF,50V
C418	VCKYCY1HB181K	J	AB	180 pF,50V	C905	VCKYPA1HB471K	J	AA	470 pF,50V
C419	VCKYCY1HB562K	J	AA	0.0056 μF,50V	C906	RC-GZA475AF1C	J	AB	4.7 μF,16V,Electrolytic
C420	VCKYPA1HF223Z	J	AB	0.022 μF,50V	C907	RC-GZA107AF1C	J	AB	100 μF,16V,Electrolytic
C421	VCKYCY1EF104Z	J	AA	0.1 μF,25V	C910,911	VCKYPA1HB471K	J	AA	470 pF,50V
C422	VCKYCY1EF103Z	J	AA	0.01 μF,25V	C912,913	RC-GZA105AF1C	J	AB	1 μF,16V,Electrolytic
C423	VCKYPA1HB222K	J	AA	0.0022 μF,50V					
C424	RC-GZA476AF1C	J	AB	47 μF,16V,Electrolytic					
C425	VCFYFA1HA104J	J	AC	0.1 μF,50V,Thin Film					
C426	RC-GZA335AF1H	J	AB	3.3 μF,50V,Electrolytic					
C427	VCFYFA1HA104J	J	AC	0.1 μF,50V,Thin Film					
C428	VCKYPA1HB561K	J	AA	560 pF,50V					

RESISTORS

R101	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R102	VRD-ST2EE100J	J	AA	10 ohm,1/4W

CD-XP160W

NO.	PART CODE	★ PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
R103	VRD-ST2CD473J	J AA	47 kohms,1/6W	R405	VRS-CY1JB101J	J AA	100 ohm,1/16W
R104	VRD-ST2CD123J	J AA	12 kohms,1/6W	R406	VRD-ST2EE4R7J	J AA	4.7 ohms,1/4W
R105,106	VRD-ST2CD331J	J AA	330 ohms,1/6W	R407	VRD-ST2CD393J	J AA	39 kohms,1/6W
R107,108	VRD-ST2CD223J	J AA	22 kohms,1/6W	R408	VRS-CY1JB222J	J AA	2.2 kohms,1/16W
R109	VRD-ST2CD183J	J AA	18 kohms,1/6W	R409	VRS-CY1JB102J	J AA	1 kohm,1/16W
R111	VRD-ST2CD103J	J AA	10 kohm,1/6W	R410	VRD-ST2CD752J	J AA	7.5 kohms,1/6W
R113	VRD-ST2CD103J	J AA	10 kohm,1/6W	R411	VRS-CY1JB392J	J AA	3.9 kohms,1/16W
R114	VRD-ST2CD621J	J AA	620 ohms,1/6W	R412	VRS-CY1JB222J	J AA	2.2 kohms,1/16W
R115	VRD-ST2CD103J	J AA	10 kohm,1/6W	R413	VRS-CY1JB392J	J AA	3.9 kohms,1/16W
R116	VRD-ST2CD821J	J AA	820 ohms,1/6W	R414	VRD-ST2CD222J	J AA	2.2 kohms,1/6W
R117	VRD-ST2CD103J	J AA	10 kohm,1/6W	R415	VRD-ST2CD911J	J AA	910 ohms,1/6W
R119,120	VRD-ST2EE4R7J	J AA	4.7 ohms,1/4W	R416	VRD-ST2CD274J	J AA	270 kohms,1/6W
R122,123	VRD-ST2EE100J	J AA	10 ohm,1/4W	R417	VRD-ST2CD224J	J AA	220 kohms,1/6W
R127,128	VRD-ST2EE391J	J AA	390 ohms,1/4W	R418	VRD-ST2CD152J	J AA	1.5 kohms,1/6W
R129	VRD-ST2EE100J	J AA	10 ohm,1/4W	R419	VRD-ST2CD332J	J AA	3.3 kohms,1/6W
R135	VRD-ST2EE393J	J AA	39 kohms,1/4W	R420	VRD-ST2CD623J	J AA	62 kohms,1/6W
R136,137	VRD-ST2CD103J	J AA	10 kohm,1/6W	R421	VRD-ST2CD223J	J AA	22 kohms,1/6W
R138	VRD-ST2EE101J	J AA	100 ohm,1/4W	R422	VRD-ST2CD105J	J AA	1 Mohm,1/6W
R139	VRS-CY1JB513J	J AA	51 kohms,1/16W	R423	VRD-ST2CD182J	J AA	1.8 kohms,1/6W
R140	VRD-ST2CD561J	J AA	560 ohms,1/6W	R424	VRD-ST2CD123J	J AA	12 kohms,1/6W
R201~204	VRD-ST2CD102J	J AA	1 kohm,1/6W	R425	VRD-ST2CD562J	J AA	5.6 kohms,1/6W
R205,206	VRD-ST2CD104J	J AA	100 kohm,1/6W	R426,427	VRD-ST2CD183J	J AA	18 kohms,1/6W
R207~210	VRD-ST2CD103J	J AA	10 kohm,1/6W	R428	VRD-ST2CD152J	J AA	1.5 kohms,1/6W
R211	VRD-ST2CD104J	J AA	100 kohm,1/6W	R429	VRD-ST2CD472J	J AA	4.7 kohms,1/6W
R213,214	VRD-ST2CD102J	J AA	1 kohm,1/6W	R430	VRD-ST2CD223J	J AA	22 kohms,1/6W
R215	VRD-ST2CD472J	J AA	4.7 kohms,1/6W	R431	VRD-ST2CD332J	J AA	3.3 kohms,1/6W
R216~219	VRD-ST2CD103J	J AA	10 kohm,1/6W	R432	VRS-CY1JB394J	J AA	390 kohms,1/16W
R220	VRD-ST2CD472J	J AA	4.7 kohms,1/6W	R433	VRS-CY1JB104J	J AA	100 kohm,1/16W
R221	VRD-ST2CD473J	J AA	47 kohms,1/6W	R434	VRD-ST2CD152J	J AA	1.5 kohms,1/6W
R222,223	VRS-CY1JB102J	J AA	1 kohm,1/16W	R435A,B	VRS-CY1JB102J	J AA	1 kohm,1/16W
R224	VRD-ST2CD202J	J AA	2 kohms,1/6W	R435C	VRD-ST2CD332J	J AA	3.3 kohms,1/6W
△ R230	VRG-ST2EM101J	J AC	100 ohm,1/4W,Fusible	R436	VRD-ST2CD154J	J AA	150 kohms,1/6W
R301	VRD-ST2EE220J	J AA	22 ohms,1/4W	R437	VRD-ST2CD332J	J AA	3.3 kohms,1/6W
R302	VRS-CY1JB104J	J AA	100 kohm,1/16W	R438	VRD-ST2CD272J	J AA	2.7 kohms,1/6W
R303	VRD-ST2CD333J	J AA	33 kohms,1/6W	R440	VRS-CY1JB103J	J AA	10 kohm,1/16W
R304	VRS-CY1JB473J	J AA	47 kohms,1/16W	R441	VRS-CY1JB104J	J AA	100 kohm,1/16W
R305	VRS-CY1JB681J	J AA	680 ohms,1/16W	R442A	VRS-CY1JB820J	J AA	82 ohms,1/16W
R306	VRS-CY1JB330J	J AA	33 ohms,1/16W	R442B	VRS-CY1JB103J	J AA	10 kohm,1/16W
R307	VRD-ST2EE470J	J AA	47 ohms,1/4W	R443	VRS-CY1JB103J	J AA	10 kohm,1/16W
R308	VRS-CY1JB103J	J AA	10 kohm,1/16W	R444~446	VRS-CY1JB473J	J AA	47 kohms,1/16W
R309	VRD-ST2EE331J	J AA	330 ohms,1/4W	R447,448	VRS-CY1JB103J	J AA	10 kohm,1/16W
R310	VRS-CY1JB472J	J AA	4.7 kohms,1/16W	R449	VRS-CY1JB102J	J AA	1 kohm,1/16W
R312	VRS-CY1JB222J	J AA	2.2 kohms,1/16W	R450	VRD-ST2CD823J	J AA	82 kohms,1/6W
R313	VRS-CY1JB681J	J AA	680 ohms,1/16W	R451	VRD-ST2CD105J	J AA	1 Mohm,1/6W
R314,315	VRS-CY1JB330J	J AA	33 ohms,1/16W	R452~455	VRS-CY1JB102J	J AA	1 kohm,1/16W
R316	VRS-CY1JB331J	J AA	330 ohms,1/16W	R456	VRD-ST2CD473J	J AA	47 kohms,1/6W
R323	VRS-CY1JB683J	J AA	68 kohms,1/16W	R457	VRD-ST2CD224J	J AA	220 kohms,1/6W
R336	VRD-ST2CD562J	J AA	5.6 kohms,1/6W	R458	VRD-ST2CD104J	J AA	100 kohm,1/6W
R350	VRS-CY1JB272J	J AA	2.7 kohms,1/16W	R459,460	VRS-CY1JB102J	J AA	1 kohm,1/16W
R351	VRS-CY1JB562J	J AA	5.6 kohms,1/16W	R461	VRD-ST2CD102J	J AA	1 kohm,1/6W
R352	VRS-CY1JB102J	J AA	1 kohm,1/16W	R462	VRD-ST2CD124J	J AA	120 kohms,1/6W
R353	VRS-CY1JB271J	J AA	270 ohms,1/16W	R463	VRD-ST2CD102J	J AA	1 kohm,1/6W
R355	VRS-CY1JB332J	J AA	3.3 kohms,1/16W	R464	VRD-ST2CD271J	J AA	270 ohms,1/6W
R356	VRS-CY1JB102J	J AA	1 kohm,1/16W	R465	VRD-ST2CD102J	J AA	1 kohm,1/6W
R357	VRS-CY1JB474J	J AA	470 kohms,1/16W	R466	VRD-ST2CD272J	J AA	2.7 kohms,1/6W
R358	VRS-CY1JB822J	J AA	8.2 kohms,1/16W	R467,468	VRD-ST2CD102J	J AA	1 kohm,1/6W
R359	VRS-CY1JB182J	J AA	1.8 kohms,1/16W	R469	VRD-ST2EE1R5J	J AA	1.5 ohms,1/4W
R360	VRS-CY1JB472J	J AA	4.7 kohms,1/16W	R470	VRD-ST2CD102J	J AA	1 kohm,1/6W
R361,362	VRS-CY1JB562J	J AA	5.6 kohms,1/16W	R471A	VRS-CY1JB103J	J AA	10 kohm,1/16W
R363	VRD-ST2CD332J	J AA	3.3 kohms,1/6W	R471B	VRS-CY1JB121J	J AA	120 ohms,1/16W
R364	VRS-CY1JB332J	J AA	3.3 kohms,1/16W	R473	VRS-CY1JB102J	J AA	1 kohm,1/16W
R365	VRS-CY1JB103J	J AA	10 kohm,1/16W	R474	VRD-ST2CD272J	J AA	2.7 kohms,1/6W
R366	VRS-CY1JB222J	J AA	2.2 kohms,1/16W	R475	VRS-CY1JB102J	J AA	1 kohm,1/16W
R371~374	VRS-CY1JB102J	J AA	1 kohm,1/16W	R476~478	VRD-ST2CD102J	J AA	1 kohm,1/6W
R376	VRD-ST2CD103J	J AA	10 kohm,1/6W	R479	VRS-CY1JB102J	J AA	1 kohm,1/16W
R377	VRD-ST2CD562J	J AA	5.6 kohms,1/6W	R479A	VRS-CY1JB182J	J AA	1.8 kohms,1/16W
R379	VRS-CY1JB222J	J AA	2.2 kohms,1/16W	R480	VRS-CY1JB102J	J AA	1 kohm,1/16W
R380	VRD-ST2CD152J	J AA	1.5 kohms,1/6W	R481	VRD-ST2CD103J	J AA	10 kohm,1/6W
R381	VRS-CY1JB103J	J AA	10 kohm,1/16W	R482	VRS-CY1JB102J	J AA	1 kohm,1/16W
R382	VRD-ST2EE331J	J AA	330 ohms,1/4W	R483	VRS-CY1JB561J	J AA	560 ohms,1/16W
R383	VRS-CY1JB562J	J AA	5.6 kohms,1/16W	R484	VRS-CY1JB681J	J AA	680 ohms,1/16W
R384	VRD-ST2CD682J	J AA	6.8 kohms,1/6W	R485	VRD-ST2CD561J	J AA	560 ohms,1/6W
R385	VRD-ST2CD562J	J AA	5.6 kohms,1/6W	R486	VRD-ST2CD681J	J AA	680 ohms,1/6W
R386	VRD-ST2EE331J	J AA	330 ohms,1/4W	R487	VRD-ST2EE101J	J AA	100 ohm,1/4W
R387	VRD-ST2CD562J	J AA	5.6 kohms,1/6W	R488A	VRS-CY1JB562J	J AA	5.6 kohms,1/16W
R391,392	VRD-ST2EE221J	J AA	220 ohms,1/4W	R488B	VRS-CY1JB103J	J AA	10 kohm,1/16W
R393	VRS-CY1JB102J	J AA	1 kohm,1/16W	R489A,B	VRD-ST2CD102J	J AA	1 kohm,1/6W
R395	VRD-ST2CD473J	J AA	47 kohms,1/6W	R490	VRS-CY1JB475J	J AA	4.7 Mohms,1/16W
R401	VRD-ST2CD102J	J AA	1 kohm,1/6W	R491	VRS-CY1JB102J	J AA	1 kohm,1/16W
R402	VRD-ST2CD224J	J AA	220 kohms,1/6W	R492	VRD-ST2CD123J	J AA	12 kohms,1/6W
R403	VRS-CY1JB100J	J AA	10 ohm,1/16W	R493	VRS-CY1JB752J	J AA	7.5 kohms,1/16W
R404	VRD-ST2CD330J	J AA	33 ohms,1/6W	R494	VRD-ST2CD103J	J AA	10 kohm,1/6W

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
R495~499	VRD-ST2CD102J	J	AA	1 kohm, 1/6W
R601	VRD-ST2CD102J	J	AA	1 kohm, 1/6W
R602,603	VRS-CY1JB102J	J	AA	1 kohm, 1/16W
R604~609	VRD-ST2CD102J	J	AA	1 kohm, 1/6W
R610,611	VRD-ST2CD473J	J	AA	47 kohms, 1/6W
R612,613	VRD-ST2CD392J	J	AA	3.9 kohms, 1/6W
R614~617	VRD-ST2CD103J	J	AA	10 kohm, 1/6W
R618,619	VRD-ST2CD333J	J	AA	33 kohms, 1/6W
R620,621	VRD-ST2CD561J	J	AA	560 ohms, 1/6W
R622,623	VRD-ST2CD104J	J	AA	100 kohm, 1/6W
R624,625	VRD-ST2CD272J	J	AA	2.7 kohms, 1/6W
R701	VRD-ST2CD102J	J	AA	1 kohm, 1/6W
R702	VRD-ST2EE470J	J	AA	47 ohms, 1/4W
R703~707	VRD-ST2CD103J	J	AA	10 kohm, 1/6W
R708	VRD-ST2EE100J	J	AA	10 ohm, 1/4W
R711	VRD-ST2CD513J	J	AA	51 kohms, 1/6W
R712	VRD-ST2CD272J	J	AA	2.7 kohms, 1/6W
R713	VRD-ST2CD271J	J	AA	270 ohms, 1/6W
R801~804	VRD-ST2CD102J	J	AA	1 kohm, 1/6W
R805	VRD-ST2CD103J	J	AA	10 kohm, 1/6W
R806,807	VRD-ST2CD270J	J	AA	27 ohms, 1/6W
R808	VRD-ST2CD103J	J	AA	10 kohm, 1/6W
R809,810	VRD-ST2CD104J	J	AA	100 kohm, 1/6W
R811,812	VRS-CY1JB392J	J	AA	3.9 kohms, 1/16W
R813,814	VRD-ST2CD333J	J	AA	33 kohms, 1/6W
R815,816	VRS-CY1JB562J	J	AA	5.6 kohms, 1/16W
R817	VRD-ST2CD392J	J	AA	3.9 kohms, 1/6W
R818,819	VRD-ST2CD682J	J	AA	6.8 kohms, 1/6W
R820	VRD-ST2CD392J	J	AA	3.9 kohms, 1/6W
R821,822	VRD-ST2CD152J	J	AA	1.5 kohms, 1/6W
R823	VRD-ST2CD623J	J	AA	62 kohms, 1/6W
R824,825	VRD-ST2CD101J	J	AA	100 ohm, 1/6W
R826,827	VRD-ST2CD103J	J	AA	10 kohm, 1/6W
R828	VRD-ST2CD623J	J	AA	62 kohms, 1/6W
R829	VRD-ST2EE221J	J	AA	220 ohms, 1/4W
R830	VRD-ST2CD331J	J	AA	330 ohms, 1/6W
R831	VRD-ST2CD151J	J	AA	150 ohms, 1/6W
R832	VRD-ST2CD333J	J	AA	33 kohms, 1/6W
R833	VRD-ST2CD100J	J	AA	10 ohm, 1/6W
R834	VRS-CY1JB473J	J	AA	47 kohms, 1/16W
R835	VRD-ST2CD223J	J	AA	22 kohms, 1/6W
R836	VRD-ST2CD103J	J	AA	10 kohm, 1/6W
R837	VRD-ST2CD102J	J	AA	1 kohm, 1/6W
R838	VRS-CY1JB562J	J	AA	5.6 kohms, 1/16W
R901	VRD-ST2CD272J	J	AA	2.7 kohms, 1/6W
R902	VRD-ST2CD102J	J	AA	1 kohm, 1/6W
R903	VRD-ST2CD393J	J	AA	39 kohms, 1/6W
R904	VRD-ST2CD331J	J	AA	330 ohms, 1/6W
R905	VRD-ST2CD333J	J	AA	33 kohms, 1/6W
R906	VRD-ST2CD102J	J	AA	1 kohm, 1/6W
R907,908	VRD-ST2CD103J	J	AA	10 kohm, 1/6W
R909,910	VRD-ST2CD472J	J	AA	4.7 kohms, 1/6W
R911,912	VRD-ST2CD393J	J	AA	39 kohms, 1/6W
R913,914	VRD-ST2CD101J	J	AA	100 ohm, 1/6W
R915,916	VRD-ST2CD393J	J	AA	39 kohms, 1/6W
R919	VRD-ST2EE680J	J	AA	68 ohms, 1/4W

OTHER CIRCUITRY PARTS

CFW401	QCWNW0475SJZZ	J		Lead Wire
CFW402	QCWNW0475SJZZ	J		Lead Wire
CNP101	QCNCM999HAFZZ	J	AD	Plug, 8Pin
CNP102	QCNCM075DSJZZ	J	AB	Plug, 4Pin
CNP103	QCNCM999CAFZZ	J	AG	Plug, 3Pin
CNP104	QCNCM998GAFZZ	J	AH	Plug, 7Pin
CNP105	QCNCM999KAFZZ	J	AD	Plug, 10Pin
CNP106	QCNCM073CSJZZ	J	AB	Plug, 3Pin
CNP107	QCNCM999DAFZZ	J	AG	Plug, 4Pin
CNP108	QCNCM050ESJZZ	J	AD	Plug, 5Pin
CNP110	QCNCM074CSJZZ	J	AB	Plug, 3Pin
CNP301	QCNCM049BSJZZ	J	AB	Plug, 2Pin
CNP402	QCNCM004DAFZZ	J	AD	Plug, 4Pin
CNP405	QCNCM932FAFZZ	J	AC	Plug, 6Pin
CNP701	QCNCM004GAFZZ	J	AC	Plug, 7Pin
CNP702	QCNCM004CAFZZ	J	AB	Plug, 3Pin
CNP801	QCNCM999CAFZZ	J	AG	Plug, 3Pin
CNP802	QCNCM999DAFZZ	J	AG	Plug, 4Pin
CNP803	QCNCM047DSJZZ	J	AD	Plug, 4Pin
CNP804	QCNCM046CSJZZ	J	AD	Plug, 3Pin
CNW101/CNS101	QCWNW0590SJZZ	J		Connector Ass'y, 8/8Pin
CNW102/CNS102/CNS106	QCWNW0569SJZZ	J	AD	Connector Ass'y, 6/4/3Pin

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
CNW103/CNS103	QCWNW0576SJZZ	J	AD	Connector Ass'y, 3/3Pin
CNW104/CNS104	QCWNW0438SJZZ	J	AG	Connector Ass'y, 8/7Pin
CNW105A/B/CNS105	QCWNW0440SJZZ	J	AF	Connector Ass'y, 7/2/10Pin
CNW107/CNS107	QCWNW0587SJZZ	J		Connector Ass'y, 5/4Pin
CNW108/CNS108	QCWNW0570SJZZ	J	AD	Connector Ass'y, 5/5Pin
CNW110	QCWNW0571SJZZ	J	AC	Connector Ass'y, 3Pin
CNW401/CNS401	QCWNW0405SJZZ	J	AE	Connector Ass'y, 4/4Pin
CNW402A/B/CNS402	QCWNW0474SJZZ	J	AD	Connector Ass'y, 2/2/4Pin
CNW405/CNS405	QCWNW0404SJZZ	J	AE	Connector Ass'y, 7/6Pin
CNW406/CNS406	QCWNW0403SJZZ	J	AF	Connector Ass'y, 9/8Pin
CNW407/CNS407	QCWNW0402SJZZ	J	AF	Connector Ass'y, 8/7Pin
CNW701/CNS701	QCWNW0434SJZZ	J	AF	Connector Ass'y, 7/7Pin
CNW702/CNS702	QCWNW0442SJZZ	J	AE	Connector Ass'y, 3/3Pin
△ F101	QFS-D402CAWNI	J	AC	Fuse, T4A L 250V
△ F102	QFS-D402CAWNI	J	AC	Fuse, T4A L 250V
△ F103	QFS-D162CAWNI	J	AC	Fuse, T1.6A L 250V
JK101	QJAKM0001SJZZ	J	AG	Jack, Headphone
JK901	QJAKJ0006SJZZ	J	AF	Jack, Mic
M2(223-8)	9GDSO2210168	J	AP	Motor with Pulley [Tape]
M3	9GDM03-DJ001	J	AL	Motor with Worm Pulley [T/T Up/Down]
M4	9GDM03-DJ001	J	AL	Motor with Pulley [Loading]
M802(205-4)	RMOTV0409AFZZ	J	AL	Motor, Air Cooling Fan
MR401	RCORF0026FCZZ	J	AF	Core
NM801	RMOTV0013SJM1	J	AM	Motor with Gear [Sled]
NM802	RMOTV0003SJM1	J	AP	Motor with Chassis [Spindle]
RLY101	RRLYD0014AWZZ	J	AK	Relay
RX701	VHLGP1UM271-1	J	AH	Remote Sensor, GP1UM271
△ SO101	QSOCA0212AWZZ	J	AD	Socket, AC Input
SO102	QTANA9024SJZZ	J		Terminal, Speaker
SW1	9GDM03-KG001	J	AE	Switch, Push Type [Open/Close]
SW2	9GDM03-KG001	J	AE	Switch, Push Type [DISC]
SW3	9GDM03-KG001	J	AE	Switch, Push Type [UP]
SW4	QSW-F9001AWZZ	J	AE	Switch, Leaf Type [Pickup In]
SW5(223-6)	9GDSO2210171	J	AB	Switch, Leaf Type [Tape 1 Play]
SW6(223-7)	9GDSO2210172	J	AB	Switch, Leaf Type [Tape 1 FF/REW]
SW7(223-7)	9GDSO2210172	J	AB	Switch, Leaf Type [Tape 2 FF/REW]
SW8(223-6)	9GDSO2210171	J	AB	Switch, Leaf Type [Tape 2 Play]
△ SW101	QSOCE0008AWZZ	J	AH	Switch, Slide Type [Voltage Selector]
SW102	QSW-S0024AWZZ	J	AE	Switch, Slide Type [Span Selector]
SW701	QSW-K0005SJZZ	J	AD	Switch, Key Type [POWER ON/STAND-BY]
SW702	QSW-K0005SJZZ	J	AD	Switch, Key Type [CD]
SW703	QSW-K0005SJZZ	J	AD	Switch, Key Type [TUNING UP]
SW704	QSW-K0005SJZZ	J	AD	Switch, Key Type [PRESET UP]
SW705	QSW-K0005SJZZ	J	AD	Switch, Key Type [TUNER (BAND)]
SW706	QSW-K0005SJZZ	J	AD	Switch, Key Type [TUNING DOWN]
SW707	QSW-K0005SJZZ	J	AD	Switch, Key Type [PRESET DOWN]
SW708	QSW-K0005SJZZ	J	AD	Switch, Key Type [EQUALISER/X-BASS/DEMO]
SW709	QSW-K0005SJZZ	J	AD	Switch, Key Type [TAPE]
SW710	QSW-K0005SJZZ	J	AD	Switch, Key Type [STOP]
SW711	QSW-K0005SJZZ	J	AD	Switch, Key Type [VOLUME UP]
SW712	QSW-K0005SJZZ	J	AD	Switch, Key Type [DISK SKIP]
SW713	QSW-K0005SJZZ	J	AD	Switch, Key Type [OPEN/CLOSE]
SW714	QSW-K0005SJZZ	J	AD	Switch, Key Type [PLAY/REPEAT]
SW715	QSW-K0005SJZZ	J	AD	Switch, Key Type [VOLUME DOWN]
SW801	QSW-S0001SJZZ	J	AD	Switch, Slide Type [REC./P.B.]
TA302	QTANC9005SJZZ	J	AD	Terminal, FM Antenna
VFD701	VVK250808/-1	J	AX	FL Display

CD MECHANISM PARTS

301	MLEVP1054AFZZ	J	AC	Rail, Guide
302	NGERH0586AFZZ	J	AC	Gear, Middle
303	NGERH0587AFZZ	J	AC	Gear, Drive
304	NSFTM0291AFFW	J	AD	Shaft, Guide
△ 308	DCTRH8004SJ01	J	BC	Pickup Unit Ass'y
308- 1	—	—	—	Pickup Unit
308- 2	MSPRC0961AFZZ	J	AA	Spring, Rack
308- 3	NGERR0043AFZZ	J	AC	Gear, Rack

CD-XP160W

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
701	LX-WZ1070AFZZ	J	AA	Washer,ø1.5×ø3.8×0.25mm
702	XBBS20P03000	J	AA	Screw,ø2×3mm
703	XBSSD26P06000	J	AA	Screw,ø2.6×6mm
704	XHBSD20P05000	J	AA	Screw,ø2×5mm
NM801	RMOTV0013SJM1	J	AM	Motor with Gear [Sled]
NM802	RMOTV0003SJM1	J	AP	Motor with Chassis [Spindle]
SW4	QSW-F9001AWZZ	J	AE	Switch,Push Type [Pickup In]

CABINET PARTS

201	CPNLC1073SJ01	J		Front Panel Ass'y
201- 1		—		Front Panel (Not Replacement Item)
201- 2	CGERH0001SJ01	J	AF	Gear,Damper Ass'y
201- 3	GCOVA1019SJSA	J	AG	Cover,Cassette,Left
201- 4	GCOVA1020SJSA	J	AG	Cover,Cassette,Right
201- 5	GDORF0026SJSA	J	AF	Holder,Cassette,Left
201- 6	GDORF0027SJSA	J	AF	Holder,Cassette,Right
201- 7	HDECQ0087SJSA	J	AD	Panel,Cassette,Left
201- 8	HDECQ0088SJSA	J	AD	Panel,Cassette,Right
201- 9	HDECQ0124SJSA	J		Panel,Amp
201-10	MSPRD0023SJFJ	J	AD	Spring,Cassette Holder
201-11	PCUSG0014SJZZ	J	AD	Cushion,Leg
202	GITAR0070SJ01	J		Rear Panel Ass'y [Except for Argentine] Rear Panel Ass'y [For Argentine Only]
202- 1		—		Rear Panel (Not Replacement Item)
202- 2	LANGK0040SJFW	J	AD	Bracket,Rear Panel
203	GITAS0012SJ01	J	AL	Side Panel Ass'y,Left
203- 1		—		Side Panel,Left (Not Replacement Item)
203- 2	PCUSG0016SJZZ	J	AD	Cushion,Leg
204	GITAS0014SJ01	J	AL	Side Panel Ass'y,Right
204- 1		—		Side Panel,Right (Not Replacement Item)
204- 2	PCUSG0016SJZZ	J	AD	Cushion,Leg
205	CFANP0001SJ04	J	AP	Fan Motor Ass'y
205- 1	LANGK0068SJFW	J	AE	Bracket,Fan Motor
205- 2	MSPRK0001SJFJ	J	AC	Spring,Ring
205- 3	NFANP0001SJSA	J	AG	Rotary,Fan
205- 4(M802)	RMOTV0409AFZZ	J	AL	Motor,Air Cooling Fan
206	GCAB-1003SJSA	J	AP	Top Cabinet
207	GCOVA1021SJSA	J	AG	Cover,CD Tray
208	GCOVA1022SJSA	J	AD	Cover,Remote Sensor
209	JBTN-0025SJSA	J	AD	Button,Record [Tape 1]
210	JBTN-0026SJSA	J	AD	Button,Play [Tape 1]
211	JBTN-0027SJSA	J	AD	Button,Rewind [Tape 1]
212	JBTN-0028SJSA	J	AD	Button,Fast Forward [Tape 1]
213	JBTN-0029SJSA	J	AD	Button,Stop [Tape 1]
214	JBTN-0030SJSA	J	AD	Button,Pause [Tape 1]
215	JBTN-0031SJSA	J	AD	Button,Play [Tape 2]
216	JBTN-0032SJSA	J	AD	Button,Rewind [Tape 2]
217	JBTN-0033SJSA	J	AD	Button,Fast Forward [Tape 2]
218	JBTN-0034SJSA	J	AD	Button,Stop [Tape 2]
219	JKNBZ0064SJSA	J	AE	Button,Operation
220	JKNBZ0072SJSA	J	AE	Button,Power
221	JKNBZ0066SJSA	J	AG	Button,Function
222	JKNBZ0068SJSA	J	AE	Button,Equaliser
223	KMECB0015SJZZ	J	AZ	Tape Mechanism Ass'y
223- 1	9GDSO2210173	J	AD	Pinch Roller Arm Ass'y
223- 2	9GDSO2210169	J	AG	Head,Erase [Tape 1]
223- 3	9GDSO2210170	J	AH	Head,Record/Playback
223- 4	9GDSO2210613	J	AB	Belt,Main
223- 5	9GDSO2210612	J	AB	Belt,FF/REW
223- 6(SW5,SW8)	9GDSO2210171	J	AB	Switch,Leaf Type,Play
223- 7(SW6,SW7)	9GDSO2210172	J	AB	Switch,Leaf Type,FF/REW
223- 8(M2)	9GDSO2210168	J	AP	Motor with Pulley [Tape]
223- 9(PWB-E)	9GDSO2210174	J		Tape Motor PWB
224	LANGK0042SJFW	J	AB	Bracket,PWB
225	LANGK0050SJFW	J	AD	Bracket,Front Panel,Top
226	LANGK0061SJFW	J	AC	Bracket,REC./P.B. Lever
227	LANGK0067SJFW	J	AE	Bracket,Main Heat Sink
228	LCHSM0031SJFW	J		Chassis,Main
229	LHLDW1001SJZZ	J	AD	Nylon Band
230	LHLDZ1052SJSA	J	AE	Holder,FL Display
231	MSPRD0035SJFW	J	AC	Plate Spring,Power IC
232	PRDAR0080SJFW	J	AQ	Heat Sink,Main
233	PRDAR0088SJFW	J	AE	Heat Sink
234	PSHEZ0008SJZZ	J	AB	Sheet,Power IC

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
△ 235	QFSDH0001AWZZ	J	AB	Holder,Fuse
237	PCOV51008SJSA	J	AG	Cover,Power PWB
238	TLABS0042SJZZ	J	AB	Label,Laser
239	GCOVA1023SJSA	J	AD	Cover,LED
240	JKNBZ0073SJSA	J	AE	Knob,Mic Level
241	LANGK0043SJFW	J	AB	Bracket,Mic PWB
242	MSPRD0027SJZZ	J	AB	Spring,Mic
243	GCOVA1036SJSA	J	AB	Holder,LED
251	9GDM03-SCT01	J	AN	Bush,Changer
252	9GDM03-SZP01	J	AH	Turntable
253	9GDM03-JYT01	J	AC	Yoke,Chucking
254	9GDM03-CT001	J	AC	Magnet
255	9GDM03-SYP01	J	AD	Stabilizer
256	9GDM03-SCT01	J	AN	Loading Tary
257	9GDM03-XHQ01	J	AB	Cushion,Ring
258	9GDM03-XP001	J	AD	Belt
259	9GDM03-SCL06	J	AC	Gear,Transporting
260	9GDM03-SCL01	J	AC	Pulley,Loading
261	9GDM03-JDB03	J	AD	Base,Transporting Parts
262	9GDM03-SCL05	J	AD	Gear,Abaxial
263	9GDM03-SCL04	J	AF	Gear,Drive
264	9GDM03-JSP01	J	AC	Slice,Limiting
265	9GDM03-SCL02	J	AD	Gear,Tarns
266	9GDM03-SCL03	J	AD	Gear,Blidge
267	9GDM03-SHB01	J	AF	Skateboard
268	9GDM03-JZZ01	J	AD	Axis,Rotational
269	9GDM03-JZZ02	J	AC	Axis,Locating
270	9GDM03-JDB02	J	AG	Base,Rotational Parts
271	9GDM03-SJZ01	J	AF	Base,Motor
272	9GDM03-SZT01	J	AB	Bush
273	9GDM03-JDB01	J	AN	Soleplate
274	9GDM03-SDK02	J	AD	Pad,Right
275	9GDM03-SDB01	J	AB	Pad,Small
276	9GDM03-SDZ02	J	AH	Base,Right
277	9GDM03-SDK01	J	AE	Pad,Left
278	9GDM03-SDZ01	J	AH	Base,Left
279	9GDM03-JYP01	J	AC	Slice,Iron
280	9GDM03-JCH01	J	AB	Spring,Thick
281	9GDM03-XXJ01	J	AC	Rubber,Absorping
282	9GDM03-SGJ01	J	AF	Frame,Load
283	9GDM03-STG01	J	AC	Bar,Switch
284	9GDM03-SCG01	J	AD	Bar,Selecting
601	LX-JZ0001SJFD	J	AA	Screw,ø3×10mm
602	LX-JZ0002SJFD	J	AD	Screw,Special
604	XBBS20P03000	J	AA	Screw,ø2×3mm
605	XHBSD20P03000	J	AA	Screw,ø2×3mm
606	XHBSD30P06000	J	AA	Screw,ø3×6mm
607	XHBFS30P06000	J	AA	Screw,ø3×6mm
608	XHBFS30P08000	J	AA	Screw,ø3×8mm
609	XHSSD30P08000	J	AA	Screw,ø3×8mm
610	XJBSD25P10000	J	AD	Screw,ø2.5×10mm
611	XJBSD30P08000	J	AA	Screw,ø3×8mm
612	XJBSD30P10000	J	AA	Screw,ø3×10mm
613	XJBSD30P24000	J	AA	Screw,ø3×24mm
614	XJBFS30P08000	J	AA	Screw,ø3×8mm
615	XJBFS30P10000	J	AA	Screw,ø3×10mm
616	XJBFS30P16000	J	AA	Screw,ø3×16mm
617	XJPSF30P04000	J	AD	Screw,ø3×4mm
618	9GDM03-SKQ01	J		Stop Washer
619	9GDM03-LD001	J	AB	Screw,ø2.5×8mm
620	9GDM03-LD004	J	AB	Screw,ø3×37mm
621	XHBSD25P06000	J		Screw,ø2.5×6mm

SPEAKER BOX PARTS

B3CPXP160W	J		Front Speaker Box Ass'y,L-CH/ R-CH
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ACCESSORIES/PACKING PARTS

△	QACCA0002SJ00	J	AL	AC Power Supply Cord [For Saudi Arabia]
△	QACCE0002SJZZ	J	AH	AC Power Supply Cord [Except for Australia/New Zealand/Saudi Arabia/ Argentine]
△	QACCL0002SJ00	J	AL	AC Power Supply Cord [For Australia/New Zealand]
△	QACCZ0006SJ00	J	AQ	AC Power Supply Cord [For Argentine]
	QANTL0005SJZZ	J	AG	AM Loop Antenna

NO.	PART CODE	★	PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
△	QANTW0005SJZZ	J	AC	FM Antenna					
	QPLGA9004SJZZ	J		Adaptor, AC Plug [For Saudi Arabia Only]					
	RRMCG0062SJSA	J	AQ	Remote Control					
	SPAKA0150SJZZ	J	AG	Packing Add., Left					
	SPAKA0151SJZZ	J	AG	Packing Add., Right					
	SPAKC0284SJZZ	J		Packing Case [Except for Australia/New Zealand]					
	SPAKC0315SJZZ	J		Packing Case [For Australia/New Zealand]					
	SPAKG0003SJSA	J	AD	Sheet, Protection					
	SSAKA0002SJZZ	J	AE	Polyethylene Bag, Accessories					
	SSAKH0021SJZZ	J	AD	Polyethylene Bag, Unit					
	SSAKK0007SJZZ	J		Pad, Accessories					
	TCAUZ0033SJZZ	J	AB	Sheet, Caution					
	TGANE0005SJ01	J	AD	Warranty Card [For Australia/New Zealand Only]					
	TINSE0136SJZZ	J	AE	Operation Manual [For Australia/New Zealand]					
	TINSZ0194SJZZ	J		Operation Manual [Except for Australia/New Zealand]					
	TLABG0064SJZZ	J		Label, ARG [For Argentina Only]					
	TLABZ0069SJZZ	J	AB	Label, Made In China, Set [For Brazil/Syria]					
	TLABZ0070SJZZ	J	AC	Label, Made In China, Packing Case [For Brazil/Syria]					
	TLABZ0091SJZZ	J		Label, Made In China [For Saudi Arabia]					
	TLABZ0109SJZZ	J		Label, Production					
	TLABZ0113SJZZ	J		Label, Pop [For Australia/New Zealand Only]					
	TLABZ0114SJZZ	J		Label, Pop [Except for Saudi Arabia/Kuwait/Egypt/Argentina/Jordan Reunion]					
	TLABZ0115SJZZ	J		Label, Pop [Except for Australia/New Zealand/Saudi Arabia/Kuwait/Egypt/Argentina/Jordan Reunion]					
	TLSTS0006SJZZ	J		List, SS [For Saudi Arabia Only]					
	—————	—		Battery (Not Replacement Item)					

P.W.B. ASSEMBLY (Not Replacement Item)

PWB-A1,2,4~8	DCEKKV300SJ03	J	—	Main/CD Servo/Power Switch/ Headphones/Up-Down Motor/ Loading Motor/Mic (Combined Ass'y)
PWB-B	DCEKNV300SJ03	J	—	Display
PWB-C	QPWBF3895AFZZ	J	AC	CD Motor (PWB Only)
PWB-D	9GDM03-YZB01	J		Loading Switch (PWB Only)
PWB-E(223-9)	9GDSO2210174	J		Tape Motor
△ PWB-F	DCEKAV300SJ03	J	—	Power

OTHER SERVICE PARTS

UDSKA0004AFZZ	J	AZ	CD Pickup Lens Cleaner
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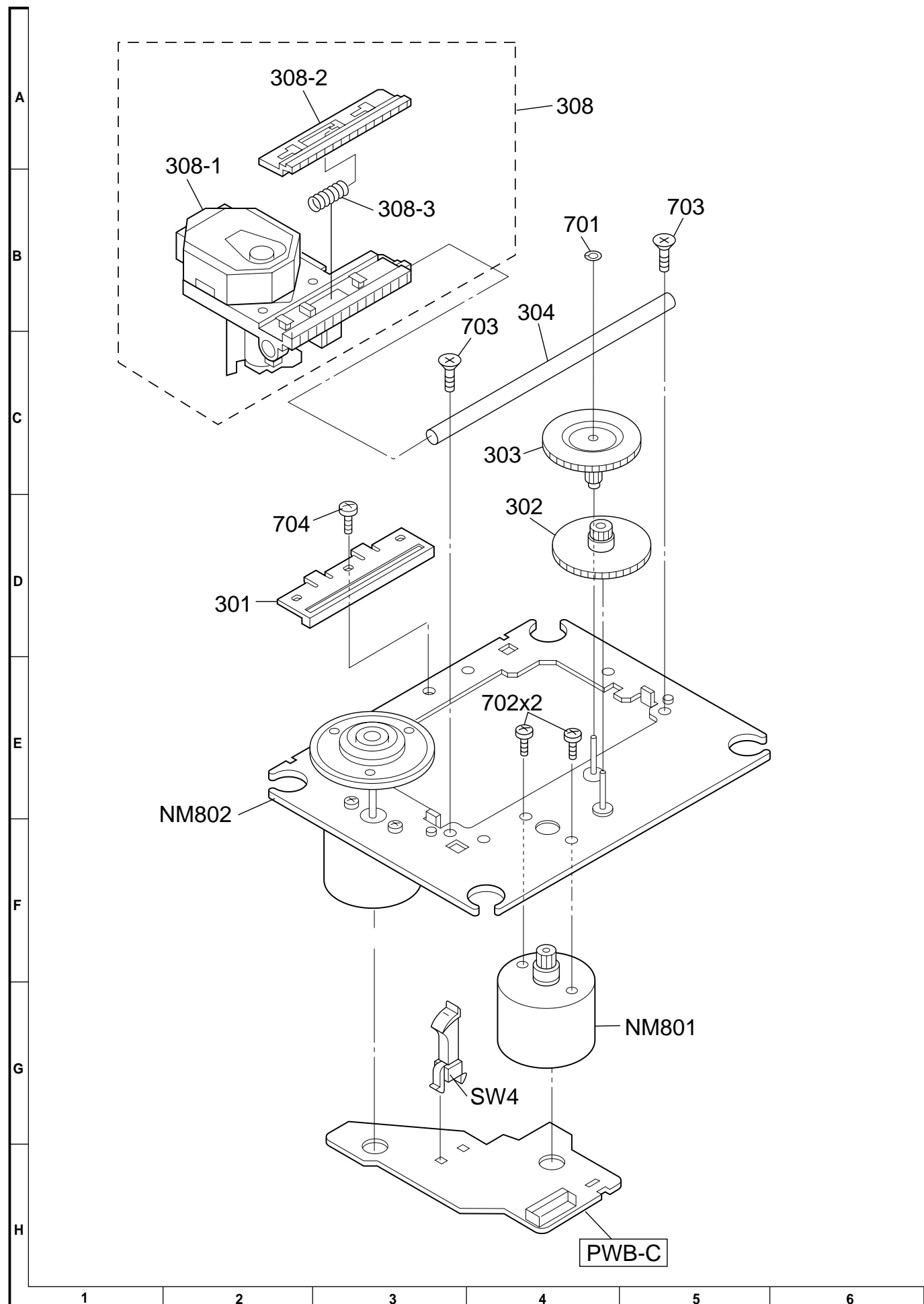


Figure 7 CD MECHANISM EXPLODED VIEW

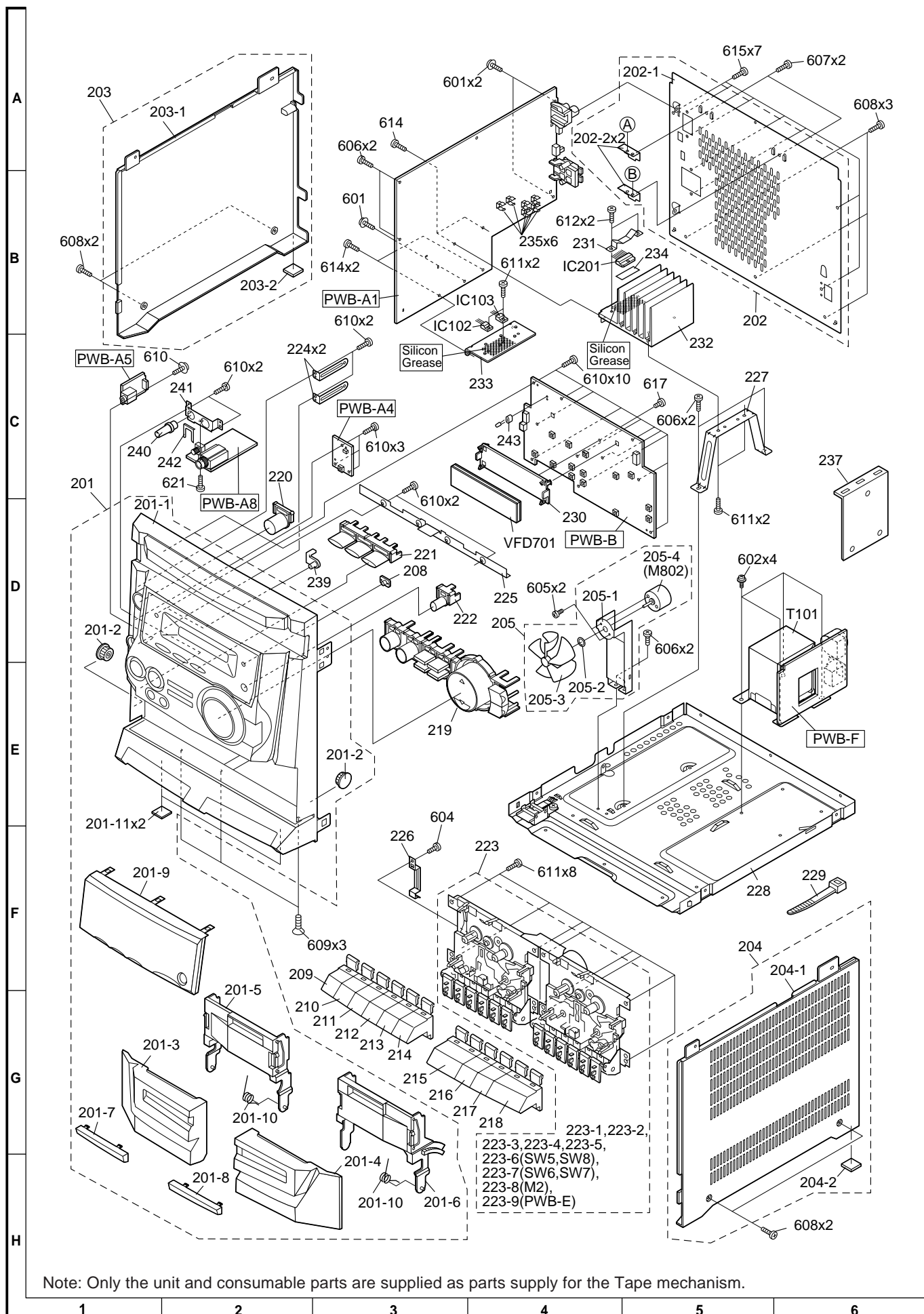


Figure 8 CABINET EXPLODED VIEW (1/2)

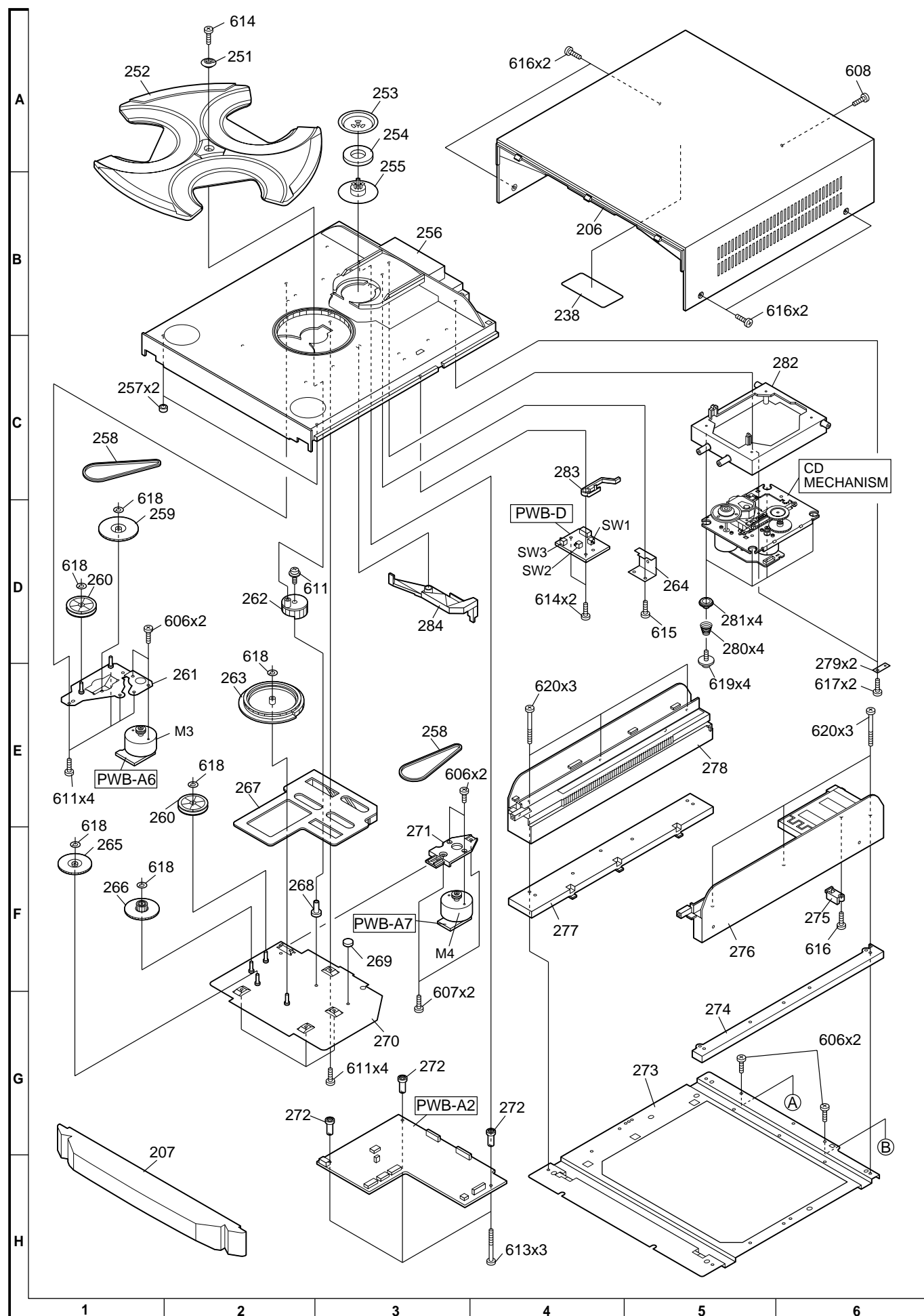


Figure 9 CABINET EXPLODED VIEW (2/2)

— M E M O —

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